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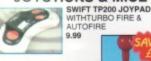
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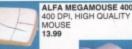
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# contents

CU AMIGA MAGAZINE . JUNE 1995

Cover Feature

# **Image Processing 27**



# Amiga's Future

20

What will become of the Amiga now that it's in the hands of German PC manufacturer Escom? We reveal their plans for the future, with a full report on the fortunes of our favourite machine.



# Public Domain

PD Scene

88

- Fancy a few cheap thrills? Get a load of this month's selection of public domain games and demos.
- PD Utilities

90

You don't need to spend a fortune to get your Amiga well tooled-up with snazzy utilities. There's plenty of good stuff to be found in the public domain!

# Get Serious

OpalVision DVE

70

Realtime digital video effects are delivered by the latest OpalVision plug-in.

72

OctaMED 6

76

The music sequencer goes from strength to strength. With Version 6, OctaMED has gone ballistic!

Tower System
 Expand your options by turning your A4000 or A1200 into a gigantic tower system.

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• Accelerator Comparison
The Apollo 1230 and Blizzard 1230-II go head-tohead in a 50MHz 68030 accelerator showdown.

• InfoNEXUS

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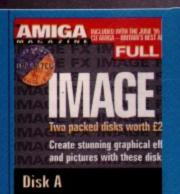
There's a challenger for *Directory Opus* in town. Can InfoNEXUS cut it?

CD ROMs

85

Thousands of megabytes of data reviewed in this month's round-up.

# Cover disks



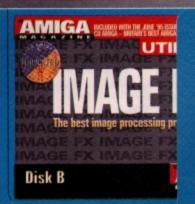




Image FX 1.5 8

It's yours to keep! ImageFX 1.5 opens the door to a wonderful world of warped, enhanced and variously processed visuals. Turn to page eight to find out more.

# Ultimate Soccer Manager 15

You thought you'd seen it all in footy manager games? Think again! Ultimate Soccer Manager takes a real life view of running a successful team, complete with betting, merchandising and hot dog price fluctuations!

# Games

# **PREVIEWS**

Primal Rage 36 From the same stable as Mortal Kombat, this coin-op conversion is looking hot.

Super Street Fighter 2 37 Do we really need to introduce the beat 'em up of the century?

Lost Eden 39 Loads of luverly 3D rendered dinosaurs on a CD-ROM. Oh, and some gameplay.

39 Coala A cute name for a brutal action flight sim. Can it beat the assault from TFX?



Sensible Golf 40 Frankly it's not cricket. It's golf actually. The Sensible people tee off.

Colonization Now that you're civilised, you need to get colonised, with Sid Meier's latest.

# REVIEWS

Pizza Tycoon Cheese fans, this could be your big break! **Ultimate Soccer Manager** 46 Football management with a few twists.

**High Seas Trader** 48 Wheeling and dealing on the seas of the middle ages.

Tower of souls 52 RPGs are still going strong - here's the latest.

56 Exile A blast from the past makes it to the A1200.

Soccer Superstars Blimey, this could be the next Sensi Soccer! Then again ...

Cute bunny wabbit in 'not very good game' shock.

Strange visitors from another universe!

58

# CD32

Gamer Gold Three games for the price of one.

**Syndicate** 

Run around shooting people!

**Pinball Illusions** The best pinball simulator ever!

Speedball 2 Futuristic football with lots of violence. 60 60

63

63

# **PLAYERS GUIDES**



Vampyra The tart with the heart is on hand to relieve you.

Bloodnet

Overcome the forces of darkness with the first part of our guide.

# Survey

# Reader Survey

56

We want to bring you the best magazine each month. What better way to find out what you lot want by asking you lots of questions. Fill out this survey and there might be something in it for you.

# Welcome to our first three disk issue in nearly a year



(last June in fact). Although it's unusual to give you an application on two disks we just couldn't resist Image FX 1.5, it's simply brilliant. Unfortunately Andy Leaning is off this month to pastures new: a technical job on sister magazine PC Review. It's not the last we'll hear from him though (the traitor): he will retain a technical consultantship on CU Amiga Magazine. Taking over from Andy next month will be music supremo and hard disk filler extraordinaire Tony Horgan, so we're looking for

a brand new full-time technical writer to fill his shoes.

The Escom deal is great news for the Amiga and a great scoop for Andy Leaning on his second last month on CU Amiga Magazine (remember our interview in the May issue). The deal has been formally confirmed and preliminary plans have been announced (see news pages) so maybe now things can start moving again.

Alan Dykes, Editor

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# News

The news we've all been waiting for has finally arrived.

Commodore has been sold. We had the story first last month about who the possible buyer might be and we were right.

Read all about it on page 20. Plus nasty shock in store for Pizza Tycoon fans - they mightn't actually get to see the game. All this and more in our news pages.

# Fancy League Results -Month Two

Results of the first month's games in the Sensible World Of Soccer Fancy Football League.

Andy Leaning troubleshoots common ProCalc problems and dallies with its database functions.	THE RESERVE AND ADDRESS OF THE PARTY OF THE	
This month we're concentrating on how to go about buying CD drives.  Graphics Masterclass Professional image composition is explained and illustrated by resident art critic Peter Lee.  Subscriptions Could you get better reader offers anywhere else? No, we didn't think so.  Video Ideas Get busy with some funky animations. Tony Horgan shows you how.  Directory Opus Customise your menu specifications in DOpus to suit your needs.  ProDraw Cloning and seaside patterns are covered here. It's a versatile package you know.  Questions and Answers The technical crew feasting on Chip Ram and hard drive expansions answer your questions.  Frequently Asked Questions Goodbye AmigaDOS blues, John Kennedy is here to wash away those niggling problems.  Q+A Masterclass Keep a grip on your Ram disk drawers, they may come in handy one day.  Backchat More reader letters discussing all things Amiga.	Andy Leaning troubleshoots common ProCalc	102
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2: Please remember that we have to write and produce your favourite magazine every month, so try to keep your correspondence short and to the point. Although we'd love to, we simply cannot reply personally to the hundreds of calls, letters, and faxes we get. Answers have to be through the pages of the magazine only.

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For general, non-technical, enquiries send your letters to Backchat, for technical problems send them to Q&A. Both are at CU AMIGA, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

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We get hundreds of new PD programs every week, but we're still hungry for more. If you've written a PD program that you're proud of send it to the PD ZONE, CU AMIGA, Priory Court, 30-32 Farringdon Lene, London EC1R 3AU.

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CU AMIGA runs massive competitions almost every issue. To enter one of these simply put your name and address on the back of postcard, along with the answers and send them to us at the usual address. Competition entries are only accepted by post. One entry per person please and the editor's decision is final. Winners will be notified by post. Other rules may be printed from time to time.

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You can contact Andy Leaning, via the Internet/Email CUAMIGA@cix.compulink.co.uk.

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**Points of View** 

Expand or pay the price says CU Amiga resident freelancer Rik Skews.

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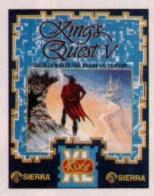
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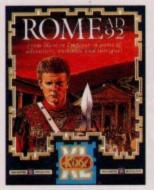


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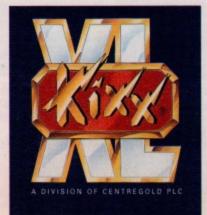
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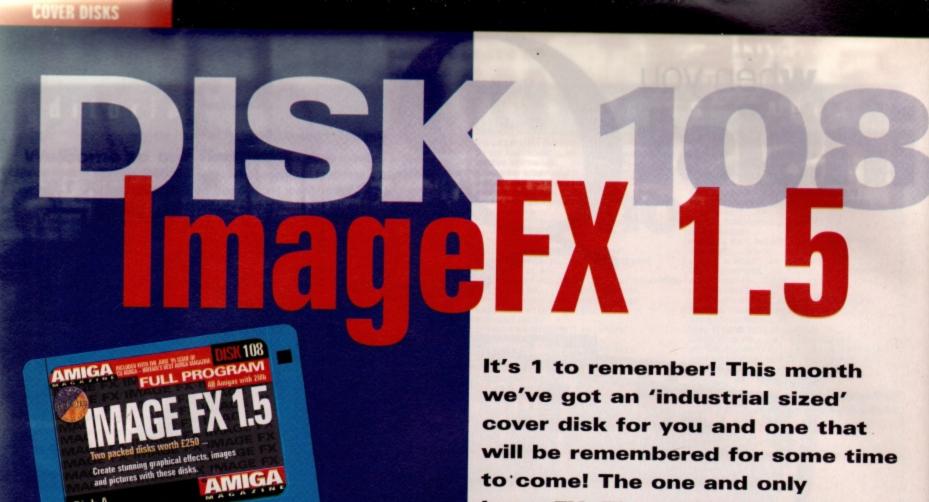


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Disk A AMIGA Disk B

**Quickstart** guide

Put disk 108 into your Amiga and turn it on. You'll now be able to load and use ImageFX from this disk - it will work on all Amigas equipped with 2Mb RAM - however, many of the features will work better with more memory, and to use some higher resolutions you will also need more memory. This is the case with all professional 24-bit graphics software.

Also on the disk is a hard disk installation program. Double click on its icon to install the program on your hard drive. Note the hard drive installed version contains a number of extra image processing tools, and modules that simply wouldn't fit on the floppy based version. In future issues however we hope to show you how to use these without using a hard drive.

You'll also find a third icon on disk 108 called ph. This is a comprehensive morphing program that you can use to create special effects but you'll require 4Mb of RAM to use this properly.

See page 18 for full loading instructions.

ImageFX. The undisputed champion of Amiga image processing, originally worth £249!

re you envious of people who can always afford the best Amiga software? It's strange but these same peo-

ple also seem to go out with supermodels and are buddies with world leaders (no really).

Well now you have the last laugh, courtesy of CU Amiga Magazine. With this issue of CU Amiga you've got one of the very best programs available for the Amiga. With it you can create images, pictures and visual effects that will make you the envy of your PC, Mac and Amiga owning friends.

You'll be able to manipulate. distort, change and edit pictures in an infinite number of ways. Change the colour of a skyline to an alien green, erase ex-lovers from family photos, or even superimpose yourself next to supermodels and famous personalities. Now you to can be seen in the company of Rolf Harris, Cindy Crawford, Bill Clinton, and even The Queen!

Whilst distorting the truth is very useful and lots of fun, it's not the only thing that ImageFX can do. With ImageFX you can also load pictures saved in a variety of file formats, morph and warp pictures creating otherwise impossible effects and produce pictures that would otherwise take hours of hard work and a lot of money.

All of this and more is possible with ImageFX. On cover disks 108 and 109 you'll find the complete program, and on page 20 we show you how to use it with an in depth tutorial and feature on image processing. Start erasing those ex-lovers now.

# Here's how

If you want to quickly see what it's about try this simple tutorial. Firstly load the program (found on disk 108 - and don't forget to back-up your disk first). You'll now see a black screen with a tool pallet at the bottom of the screen - this is the standard ImageFX control panel and from here every feature of the program can be accessed. To the bottom right of this panel you'll see a button labelled Load. Click on this.

You'll now be able to load the sample picture supplied on the second cover disk. If you haven't already done so put disk 109 into the disk drive and when the file requester comes up select the file called 'Spaceman.iff'. This will now load. The screen changes to show a picture of the spaceman with the ImageFX control panel at the bottom of it. Now to have some fun at the expense of NASA.

Click on the button called Balance and you'll see a column of sliders. Grab the slider labelled B and drag it to the left until the number on the right-hand side of

the slider reads about -94 and click on the Okay button. These sliders represent the red, blue and green content of the picture and by dragging down the slider representing blue we've reduced the amount of blue in the picture.

You'll now see the picture change, as the blue content of the picture drops. Next we're going to add a water ripple type effect. To do this click on the Effect button and then on the Wave Distort selector.

All being well a new requester will appear allowing you to enter settings for the distortion. In this case set the Wave Length to 15 and click on Okay. ImageFX will now think for a short time and then display another requester allowing you to set the amount of distortion. Set this to 25 and finally click on the Okay button.

The program will now start working on the distortion and the maths needed to produce it. You can track its progress by watching the status bar at the bottom right hand side of the screen, the small graph of black bars. One-by-one these bars will turn to blue. When the last bar turns blue the operation is complete and the screen will redraw to show the changed picture.

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led led of Once it's finished press the right mouse button to turn off the panel display and see the complete picture. Press the button again to get the panel back. It's not a particularly useful picture but one that shows some of the capabilities of the program. Click on the Undo button to cancel the last operation.

# **Shock tactics**

Now let's give our spaceman a shock he won't forget for a while. Click on the Hook button and then on the Explode option. This allows us to affect the picture so that it looks as if it's exploding.

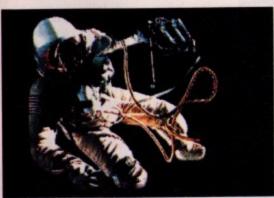
Change the Explode Length setting to 42 and then click on Okay. You'll now be presented with two further requesters allowing you to set where the centre of the explode operation will start in the picture. Click on Okay for both of these and the default settings will be used.

After some time (which will depend upon how fast your Amiga is) the screen will once again redraw to show the results of the explosion. Our spaceman will never be the same again! Press the right mouse button to see the effects in full.

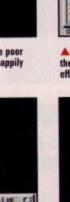
As a final effect click on Undo



# Here's a little something I prepared earlier



A Here's our spaceman ready to be digitally processed, the poor chap doesn't know what's about to hit him! There he was happily lurking about in space and we nab him. Let's begin ...



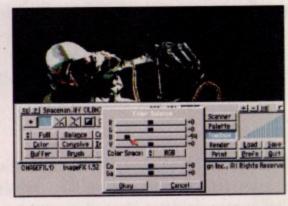
▲ Notice how the colour has now changed, less blue in the picture. Now to really give him something to worry about. From the Effect menu click on the Wave option.



▲ Stage one: load ImageFX off our cover disk. The buttons along the bottom allow us to apply an almost infinite range of visual effects and image processing.



▲ I think he's had enough of all this messing about and wants to wave good bye to the whole thing! So, here we've applied the wave tool and the results speak for themselves!



A First we'll change his colour a bit. From the Balance button we can increase and decrease the amount of Red, Green and Blue in the picture. We've reduced the Blue content.



Finally, let's go out with a bang. We've undone the Wave effect and now applied an explode operator giving a dynamic finish to the quick overview of this month's cover disk.

# Image FX2

IMAGE PROCESSING POWER HAS NEVER BEEN SO AFFORDABLE.

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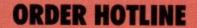
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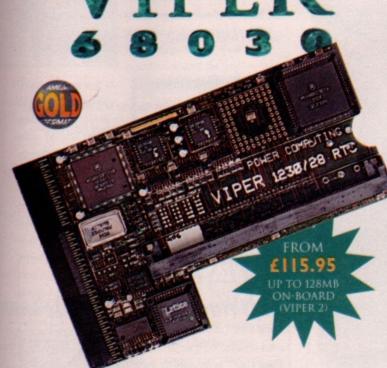
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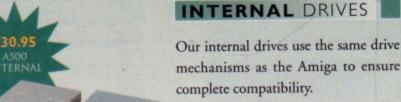
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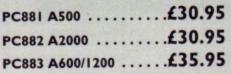


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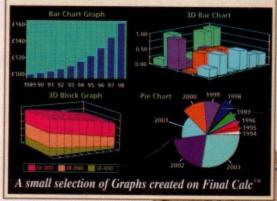
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Final Data<sup>™</sup>, is designed in the true SoftWood tradition and brings you a program that is not only extremely powerful, but also very easy to use. Indeed, you can learn to set up your Final Data<sup>™</sup> database, enter your information and print the results in a matter of minutes... not hours. You'll soon be generating all kinds of reports and label print runs to suit your kind of work.

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Final Calc™ is the answer to every Amiga Spreadsheet users dreams. With its flexible modes of operation,
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Final Calc™ is due for release in Spring 1995, so look out for the magazine reviews. If you want to know more now, simply cut the coupon (on the right) for your free advance information.



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# Final Copy IITM

Release 2

Designed to get the most out of an Amiga floppy drive based system, Final Copy II offers more than just word processing (at which it naturally excels) and opens up a world where 'how the document looks' is as important as 'what the document says'.





Final Copy II is ideal for that quick letter but also boasts features which are powerful enough to help you produce end results normally only associated with expensive Desk Top Publishing packages... always easy to achieve, without the fuss!

Unique features such as

FastDraw<sup>™</sup> on screen
drawing tools (to generate
boxes, borders, lines and
arrows etc.) and Perfect
Print<sup>™</sup> (an advanced
system that enables you to



print the same Postscript<sup>TM</sup> outline fonts to any printer in both landscape & portrait modes) ensure that *Final Copy II* is the leader in its class. You can easily generate multiple newspaper style snaking columns, import any graphic objects or pictures (and place them anywhere on your page), scale or crop those graphics and also auto flow text around them. You can even



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print text over graphics and the output is always of the highest quality.

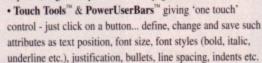
Final Copy II offers the perfect balance between word processing and more advanced page layout creation - in one great program.

Ease and speed of use with total control of the final printed presentation is available on your floppy based Amiga system right now for only £49.95 inc. p&p.

Final Copy II requires any Amiga floppy or hard drive system with a minimum of IMb. free RAM (A600 hard drive computers need 1.5Mb). Twin floppy drives are recommended for total flexibility with no installation or multiple disk swaps required. Foreign Dictionaries Now Available Release 3

Hard drive compulsory, this new program is for power users wanting the ultimate performance. As with *Final Copy II*, excellent output is guaranteed utilising **PerfectPrint**™ and you'll also benefit from a host of other advanced features including...

 Text Blocks<sup>™</sup> which position text at any size, angle and position on the page



 FastDraw Plus<sup>™</sup> allowing more versatile on screen drawing tools which include options like rotation.

Final Writer can also import, scale, crop, view on screen and output structured PostScript EPS clip-art images (we even include 100 free) to any printer. With PostScript printers your options include... thumbnails, crop marks, scaling and halftoning.



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text, spelling while you type, dictionary hyphenation, foreign

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Final Writer Rel 3 requires any Amiga running Workbench 2 or 3 with a hard disk drive and a minimum of 2Mb. free RAM.

# Final Data™

# New Release 2

Final Data has been developed to be by far the EASIEST TO USE Database for your Amiga. To set up a Final Data database, you won't be confronted by an array of unfamiliar commands... simply define a column for each category of information you want to keep eg. first name, surname, house name/number, street, town, county, postal code, phone number etc



(Incidentally, you can add or remove columns at any stage). Your new database will appear as a table with rows and columns allowing you to view whole ranges of data at the same time. Column widths can be adjusted by dragging their borders with the mouse. Data is then entered

into "cells" (Final Data even detects entries of invalid dates etc. and displays an alert message). Screen totals are available as options on all amounts/calculations (numbers can also be formatted with currency signs and commas).



Final Data even has built-in routines for label printing and you can always utilise the "Print Merge" feature found in Final Copy II<sup>TM</sup> and Final Writer TM - simply select the program you are using and Final Data does the rest automatically. You can also access any database created in Pen Pal<sup>TM</sup>, MiAmiga File and File IIsg TM as well as standard ASCII files found in many other programs. Above all you'll be able to start using Final Data immediately.

New Release 2 adds features that now allow you to...

Select Multiple Rows/Columns that aren't adjacent to one another
 Call up a comprehensive Database Query Requester which lets you define a complex search criteria.
 Access Sub Lists to display rows which have been located by a query or manually selected and then print or save them.
 Open a window in which you type information to use as a Memo.
 Create a database with Running Calculation Columns (for using like a current account statement with credits against debits etc.) and
 Refined use of many other Final Data functions too.

In a recent CU Amiga Magazine, the editorial read "...the majority of Amiga users sitting at home wondering what practical use they can put their computers to should rush out and get Final Data immediately".

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Final Data Rel 2 requires any Amiga system with a minimum of 512K free RAM operating under Workbench 1.3 or higher.

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# Double Dealing from HiSoft!

Exclusive Hot News

Following a lengthy investigation, we have discovered irrefutable evidence that Amiga publisher HiSoft is engaged in double-dealing. Although the company is known for top-selling titles such as Devpac 3, Megalosound and Squirrel SCSI, it now seems that HiSoft is prepared to offer a number of these professional packages bundled together at prices that can only be described as suspicious.

Our reporter gained an exclusive interview with David Link, of HiSoft, who made this outrageous claim: "We have been supporting the Amiga community for 10 years now with a range of software and hardware packages. As a thankyou to all the loyal supporters of this amazing computer, we decided to make some very special 'birthday' offers to readers of this magazine.". Double-talk? We'll leave you, the reader, to judge ...

88% Amiga Computing 95% AUI 88% CU Amiga

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the Termite Button Bar

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90% AUI 92% CU Amiga

The professional's choice for Amiga assembly language development, Devpac 3 is a complete package of 68000-68040 assembler, debugger, debugger, editor and linker. Ideal for beginner and expert alike, Devpac 3 is the perfect

> **DoubleDeal** £129.95+P&P

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12/16 bit PCMCIA Sound Sampler 96% Amiga Shopper

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Aura is perfect as a stand complete sampling package.

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The Amiga Database

**DoubleDeal** 

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Twist 2 & MaxonMagic

Twist 2 is the new, friendly, relational database for all Amigas. Twist's range of power features such as its integrated forms designer, its varied & multi-level querying, its N:1 1:N & N:M relations coupled with its un-cluttered, well-designed user interface make it ideal for both the first-time and the seasoned database user.

# Maxon Magic

This is the utility that you simply must own! Maxon Magic is a funtastic combination of 20 different animated screen savers, a system event sound manager and many amusing sampled sounds that will not only be incredibly useful but will give you and your friends endless enjoyment as well.



# **Squirrel Storage Systems**



Amiga Format 93% CU Amiga 94% Amiga Shopper 95%

As you can see, the Amiga press has gone nuts over our new Squirrel SCSI interface for the A600/A1200. In case you've missed these reviews, the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you to connect up the Squirrel SCSI is a plug-and-play add-on that allows you the Squirrel SCSI is a plug-and-play add-on that allows you the Science and the Squirrel SCSI is a plug-and-play add-on that allows you the Science and the Science the squirrel scot is a plug-and-play add-off that allows you to connect up to 7 SCSI peripherals to your Amiga. Just think of it, CD-ROM, Hard drive, Scanner, DAT, Optical, SyQuest, Tape Streamer - all on line at the same time! No wonder we named it after that famous storage-hungry animal! To go with Squirrel, we have some great value devices...

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Add £60 for external versions (case with integral psu and all SCSI connections) where appropriate. Squirrel SCSI interface costs £69.95 by itself.

# **Order Hotline**



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To order any of the special DoubleDeals shown on this page (or any other HiSoft product, see the list opposite) - just call us, free of charge, on 0500 223660, armed with your credit or debit card; we will normally despatch within 4 working days (£4 P&P) or, for only £6, by guaranteed next day delivery (for goods in stock). Alternatively, you can send us a cheque or postal orders. All prices include VAT. Export orders: call or fax to confirm pricing and postage costs. © 1995 HiSoft. E&OE.

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# HiSoft products for your Amiga:

Here is a list of HiSoft titles for the Amiga computers (prices shown are the individual RRPs): Squirrel SCSI interface - £69.95. Squirrel Storage Systems - please call, Aura 12/16 bit sampler - £99.95, Megalosound 8 bit sampler - £34.95, ProMidi interface £24.95, HiSoft Devpac 3.14 - £79.95, HiSoft BASIC 2 - £79.95, HighSpeed Pascal -£99.95, Gamesmith - £99.95, Termite -£39.95, Twist 2 database - £99.95, Maxon Magic - £29.95, Upper Disk Tools - £14.95, VistaLite inc MakePath/TerraForm - £39.95 and much more. Coming soon: DiskMagic (disk tools) and Cinema4D.

# Utimate soccer Manager

Ultimate Soccer Manager follows Impressions' well earned reputation for fine strategy games. Our fully playable demo should give you a taste of what's to come ...

Loading ...

First things first, write protect your disk, then insert it into the drive. Make sure you have two un-write protected disks handy because the demo needs to decompress on to two disks. Restart your machine and the disk will autoboot to a Workbench screen with a cover disk icon on it. Click on the disk icon and a window will open with an *Ultimate Soccer Manager* icon in it. Click on this and follow the on-screen instructions which will tell you when to insert the other disks.

Once the demo has been decompressed to two disks put your original cover disk away safely and re-start your Amiga with the first new demo disk.

# **Getting started**

On the 'select team' screen you can highlight any team you like but the default setting is for Brighton and Hove, though in the full game you can play any team you like. If you want to give yourself a head start, click on the Edit button and you can change any of your team's attributes by selecting a player and using the arrows or



clicking on the panels and changing their numbers.

Click on Select to move on from this screen and then choose how much money you want. Because this demo lasts for nine games the amount you choose here will have little impact on its overall outcome. The next panel to appear will give you game options. Click Yes or No to the business game not be able to select match rigging or bunging, as they are disabled. When it comes to entering your name, use your order as this will be used later on in the demo.

# Settling in

Now you have started the game. You will see a 3D view of the ground. On this screen



there are several areas in the club that you can go to. Move the mouse pointer around and the text at the bottom of the screen will tell you what everything is. The only place you will not be able to go to in this demo is the training ground. If you click on the right mouse button this will bring up an icon bar that allows you to move quickly between screens.

All Amigas with 1Mb

Click on the chairman's office to visit him for feedback, arrange club sponsorship and advertising, set ticket prices, analyse attendance and plan ground improvements. Go to the manager's office to check fixtures and messages (on the noticeboard), arrange friendlies and transfer players (on the fax machine), view player, manager and club stats (in the filing cabinet), check league tables (on Ceefax), and arrange a bet, if you dare (on the telephone). You should visit the office regularly to check the notice board and fax machine and read the newspaper after games.

The bank manager will be happy to show you your accounts and money can be transferred from accounts etc.

# Fax and figures

First of all use the fax machine to set up four friendlie's (top division teams will reject your offers so you are limited to the third division and conference). Then choose Match Day Options by clicking on the football pitch. Click on Select Team (the tunnel) to

examine your player's stats and position them correctly. Players will have points for keeping, tackling, passing, shooting and pace. Naturally you'll want defenders to be good tacklers and strikers to be good at shooting. To move players, just highlight the one you want and click on the Move Pos. button then your cursor will become that player's name and you can place him wherever you want. Then choose team formation and your style of play (in the Team Formation screen). You can also move players around here by simply clicking on them, but the changes won't be permanent.

Now choose the Start Match button or click on the referee to begin the game. Clicking on the Kick Off button starts the match. You can pause it and give new instructions to players by clicking on the Pause button, then on an individual player and then on one of the instructions buttons (forward, back, left, right, normal and man to man). You can halt the game and change formation or make a substitution by clicking on the Subs button, which will stop the game and switch to the formation screen as soon as play is halted for some reason. If you want to speed up the game click on the arrows on either side of the Norm button.

And that's it: try it out. You will be able to play four friendlies, four league games and one cup game before the demo ends.





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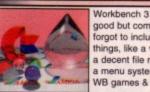
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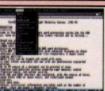
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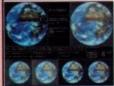
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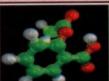
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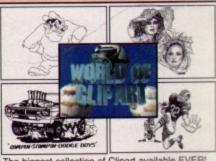
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WORLD OF CLIPART CD



# Before you start anything

Make a back-up copy of your cover disks before you do anything. This will save you endless trouble if you erase or damage your disks.

If you aren't sure about how to make a back-up just follow our guide to the right. Make sure to rename your back-up disks to match the originals.

For example, the copy of Image FX will be automatically renamed Copy of Image FX by the Amiga. Use the Rename option from the Workbench menu, deleting the 'Copy of prefix'. This is absolutely essential, as parts of the program will not work otherwise.

# Making a back-up is easy

- 1. Take a spare blank disk.
- 2. Boot with your Workbench disk and load the Shell program. This can be found in the System drawer - double click on it.
- 3. Now type in the following line and press Return:

# diskcopy from df0: to df0:

- 4. You'll now be prompted to insert the source disk (108, 109 etc). After a few minutes you'll be asked to insert your blank disk. On some Amigas you'll have to swop disks several times.
- 5. Once finished type in the following, and then press Return:

## endcli

You now have a back-up of the disk. Now you can begin.

# IF YOUR DISK WON'T LOAD

We go to great trouble to ensure that the CU Amiga Magazine cover disks will on common Amiga models. However if you do experience problems follow this

simple guide. 1: Remove all unnecessary upgrades and peripherals, such as printers and modems. Some trapdoor expansions

- 1: Remove all unnecessary upgrades and peripherals, such as printers and modems. Some trapdoor expansion can also cause problems.

  2: Follow the instructions on this and previous pages exactly.

  3: If you still experience problems loading the disk call the DiskXpress helpline on 0451 810 788 between the hours of 10am and 5pm Monday to Friday.

  If they advise that the disk is faulty, fill in your details in the form below, and send this form, along with the faulty cover disk and a 28p stamped self addressed envelope to:

  CU Amiga Magazine Disk Returns, DiskXpress, Unit 7, Willow Court, Bourton Industrial Park, Bourton-on-the-Water, Gloucestershire GL54 2HO.

ļ	NAME:
	Anneres.
:	
	TYPE OF AMIGA OWNED:
	DISK NUMBER:
	DESCRIBE EXACTLY WHAT HAPPENS WHEN YOU TRY TO LOAD THE DISK:

ImageFX is a massively powerful program, and being so powerful it's also very large. For this reason we've had to provide three cover disks this month - disks 108 and 109 contain the Image FX program and data files.

# Loading Image FX

To use the program direct from the floppy disks, insert disk 108 in your Amiga and turn it on. Now double click on the icon labelled ImageFX. After a short while a window will open with further icons in it. Click twice on the icon labelled ImageFX in this window.

The program will now load. The main program has been compressed in order to fit all the necessary files onto the disk. This won't make any difference to how you load the program, but your Amiga may appear to stop for a short while as it decompresses the data. Don't worry, after a short time ImageFX will pop up on screen. You're now ready to join the world of professional image processing. Turn to our feature elsewhere in this issue for a detailed tutorial on this power packed program.

# Disk 109 - Hard drive installation

Disk 109 contains a sample picture for use with ImageFX, and further data used for hard drive installation. To install ImageFX on your hard drive insert disk 108 into your Amiga, turn it on and double click the Image FX disk icon. Next double click on the hard disk install icon. You'll now be asked a series of simple questions and the program will be installed onto your hard drive.

# Virus outbreak

We go to great trouble to ensure that our disks are completely free from viruses. However we cannot accept any responsibility for possible damage incurred by viruses or faulty disks which have escaped our attention.

# Ultimate Soccer Manager

Write protect your cover disk! Slide the tab in the corner so that it's in the open position, otherwise you may accidentally overwrite the original and render it useless.

You'll need two spare disks to hand, as Ultimate Soccer Manager has been compressed onto one to fit it onto this month's cover. These spare disks do not need to be formatted, but anything they contain will be completely erased in the decompression process.

Insert cover disk 110 into the internal floppy drive and switch on your Amiga. The machine will autoboot to a Workbench screen. Double click on the disk icon, then double click on the first of the two icons in the window that appears. You'll be prompted for your first blank disk. Insert this and follow the on-screen prompts. When everything has stopped, double click the second icon in the window, and use your other blank disk this time.

Now you can re-boot your Amiga using the first of your blank disks. The game will load and run automatically.

# BRIANFO

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# Amiga, going once, going twice...

he future of the Amiga has finally been secured with production of the A600, A1200 and A4000 to be resumed. The first of the new batch will be on sale again by August. As reported in last month's issue of CU Amiga Magazine the retail group Escom entered a bid for the rights to ownership, technology, trademarks and patents of Commodore and the

Amiga. In an auction held on April 20th and finalised shortly later Escom were awarded the contracts. Escom is reported to have spent some \$10 million in the process.

At the auction were interested parties from Commodore UK, the American distributor CEI, PC manufacturer Dell, and Escom. The Commodore UK team turned up only to realise they couldn't match the bids being placed and promptly backed out. Their official announcement said they would work with the winner.

All prospective bidders were asked to place a \$1 million deposit, with no conditions. Only Escom managed this with their bid of \$5 million. Dell's bid was not accepted, as it had

the condition that they have 31 days to look into patents. However, Dell had put the highest bid on the table, so to speak.

Escom accordingly raised their bid to \$10 million and this was accepted.

Escom have confirmed that they will restart production of the A600, A1200, A4000 and also the C64 (Commodore's previous 8-bit home computer). These will be produced by a Chinese manufacturer, Tianjin Family-Used Multimedia Co. Ltd, under license from Escom. The Amiga

models are to be sold throughout Europe in Escom's stores – see CU Amiga Magazine May '95 and also by independent retailers. The

C64 will be sold in Eastern Europe.

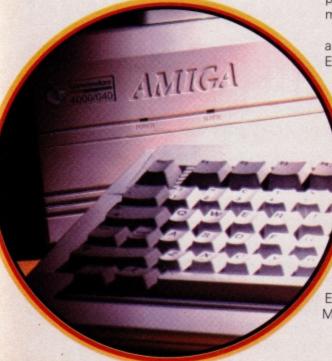
They will also license Amiga technology to distributors in the Far East and USA. The future of the Commodore UK operation is uncertain, as Commodore UK is now owned by Escom. When we contacted Commodore UK all they would say is that they are working on a deal, and would have news within a week. Bernard Van Tianam from Escom was known to have been meeting them in the UK at the end of April to discuss their future role.

What ever happens in the coming months, the future of the Amiga is at last certain.

# Seen it all before

This take over of Amiga technology will have a familiar ring to it for those Amiga users who have been around long enough. It is in fact the second time Amiga technology has changed hands.

The Amiga was originally developed by a company called 'Amiga Inc'. Originally this was backed by Atari, but later Commodore got involved and 'liberated' the company from Atari. Amiga Inc was then merged with Commodore and the computers then sold and marketed by Commodore.



# The future's looking good so far

Although Escom were not prepared to divulge many details of future plans they did reveal a few snip-

# ESCOM PRESS RELEASE 27th April 1995

ESCOM ACQUIRES AMIGA VIDEO AND MULTIMEDIA TECHNOLOGY Amiga and Commodore Trademarks To Be Continued. Leading PC retail group ESCOM has purchased all the rights formerly belonging to the Commodore ownership, technology, trademarks and patents of Commodore and Amiga

The technology of the Commodore Group is highly prized among professionals in the multimedia market. With this acquisition, ESCOM has become the control leader in multimedia technology for the control of the control world leader in multimedia technology for the con-

ESCOM is committed to continue marketing the successful product range under the names Commodore and Amiga. It has decided to restart the production of the legendary Commodore C64 for the mass markets Eastern Europe. Production of Amiga models 4000, 1200 and 600 will also be resumed.

ESCOM is working to integrate Amiga and PC platforms, developing end-user PC adapters that the special Amiga to the PC. ESCOM also believes that the special Amiga verset-top boxes will become the future of

The production and marketing of the Amiga plat-orm has been licensed to the Chinese company, tanjin Family-Used Multimedia Co. Ltd. The company

Lanjin Family-Used Multimedia Co. Ltd. The company the largest producer of 16-bit games machines in mina, with a marketshare of 80 per cent and an stalled base of one million consoles.

By joining this Chinese partnership, ESCOM has eneed up one of the most important potential reently negotiating the sale of licenses with sure worldwide availability of Commodore and iga technology.

▲ Here is the official press release from Escom. We've reproduced it here, in full.

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pets of information to CU Amiga Magazine. As exclusively reported in last month's CU Amiga Magazine, Escom have big plans to use the Amiga as a mechanism for delivering interactive TV via set-top boxes. In fact they went so far as to say: "Escom also believes that the special Amiga TV set-top boxes will become the future of interactive television". Escom also said they are working to integrate Amiga and PC platforms. This would probably be some form of plug-in card for PCs that brings the advanced audio/graphics (multimedia) capabilities of the Amiga to PCs. An Amiga card giving PCs Amiga compatibility has not been confirmed. Their plans for the Amiga include relaunching the A600 and A1200, with a few as yet unannounced minor enhancements. There are also reports of Amiga branded VR technology and upgrades, although exact

details of what form these will take are still to be decided. Escom have approximately 100 ex-Commodore staff already working for them in various positions around Europe and are actively recruiting ex-Commodore technicians. They also intend to produce PCs and Apple Mac clones with the Commodore badge on them and are looking into other developments available using Amiga technology.

range of new multimedia speakers. The ScreenBeat range includes active speakers and sub woofers with models suitable for mounting on the side of monitors or standing separately. The speakers are available from most main dealers, with prices starting from £14.99.



# peak up Commodore up for sale — again



Apparently Commodore International is not the only Commodore up for sale. This photo was sent to us by Jason Brown from Lincolnshire, who is apparently an up and coming artist in the games industry, while on holiday in sunny Norfolk. Well spotted! Has anyone else got strange or funny Amiga related photos or stories? Send 'em in.

# STOP PRESS!

In next month's CU Amiga Magazine we hope to have full details of Escom, their plans for the future of the Amiga and just what went wrong with Commodore UK's plans.

# ProDraw Upda

LH Publishing are offering an A1200 and A4000 owners using our May ProDraw cover disk. The update allows the program to run on these systems. The company is also offering a manual and hard drive installation service. LH Publishing are on 01908 370 230.

Guitar Companion which was reviewed in last month's PD Utilities pages is now available from the F1 Public Domain library (tel: 01392 493580) and the price is now £3.99 including P+P rather than the stated £5.99.

# First and second

Fans of that lovable duo Bubble N Squeak will be pleased to know that Audiogenic are busy working on a follow up to this hugely popular game.

However, don't expect more of the same as Audiogenic's Peter Calver is adamant, however, that this version will be completely different to the original.

Audiogenic are also working on an as yet unnamed platform game which sees a princely figure metamorphosing into various different life forms (bat, bird, squirrel, grass hopper, spider, helmet bug, rock) as he leaps through each world.

This latest platformer was designed by two fresh faced art students and, having seen the first roughs, looks pretty impressive. We should have a full preview of both games very soon.

# Tycoon's future in the red

s this issue was going to press CU Amiga Magazine received the disheartening news that MicroProse' latest business sim, Pizza Tycoon, might not make it onto retailers' shelves. Despite receiving high scores in most Amiga mags (see page 44 of this issue for our rating) retailers are not keen on stocking the game all about making it in the pizza business because it will not run on 1Mb Amigas. The minimum specification to play the game is an A1200 with a hard drive. What rot! Perhaps the lily livered bunch might wake up when they read the latest news of Escom's plans for the Amiga. Or perhaps all hard drive-equipped A1200 owners could gather up a petition and send it off to the nearest stockists. That'll show them. More news as we get it.



Are we going to be deprived of making our speciality pizzas in the cut and thrust business of the pizza world?

# Firing on all cylinders



▲ Great graphics but we'll have to wait and see about the gameplay.

Black Legend have certainly been keeping their motor running these past couple of months. Not only are they busy starting work on a new racing game, WheelSpin, that they hope will be a Super Skidmarks beater, they've also got a chockload of other games which will be ready for review guite soon.

Developed by the Italian based company Floating Point, WheelSpin is an overhead view racing game which will feature sixteen gloriously colourful tracks spanning various terrain.

Games nearing completion include the fantasy world of the RPG Evil's Doom, Doom clone Behind the Iron Gate, the CD32 animated chess game – Chess Through The Ages and Leading Lap – a VR racing game. We should have reviews of all these games next month.

# **Final upgrade**

Softwood have announced a new version of their popular database program *Final Data*. Called *Final Data 2* it will retail for around £40, though existing users will be able to upgrade at a lower price. New features include a comprehensive interrogation requester that allows you to extract information in almost any form you could need, a memo feature, limited spreadsheet ability and more. We should have further details and a review next month. For more information call 01733 836 781.

Mortgage net

Legal and General are the latest financial institution to get linked up to the 'net. Called the Mortgage Maze their board will allow you to get details of L&G mortgages and ask questions without having to go out in the sweltering heat of the great British summer and grovel before your building society or bank manager. The L&G Mortgage Maze is at http://www.cityscape.co.uk/users/dd75.

# PCMCIA modem driver

Eyetech's new PCMCOM driver opens up a whole new range of PC peripherals to Amiga users. The software allows A600s and A1200s to use PCMCIA card modems and serial ports which are commonly available similar to the way that the Squirrel SCSI interface allowing the use of PC SCSI storage devices. It sells for £29.95 and is available from Eyetech on 01642 713 185.

# Interactive football league

Team 17 are set to become the first UK computer games publisher to branch out into the world of on-line games with the launch of *IFL* (Interactive Football League) early this Summer.

"IFL will be the first of many on-line games from the company", claimed PR manager Alan Bunker. Their first effort is a multiplayer football management game, where the player has the opportunity to test their management skills to the limit. You can buy and sell players, determine tactics, enter into home and European cup competitions – even send secret messages to other managers.

Prize money is on offer for league and cup champions and manager of the month awards will be presented to those who really lead the way in the world of soccer management. Expect IFL to be launched on June 1st – you can phone Team 17 on 01924 267776 or email them for further details at: baggers@team17,demon.co.uk

# Lost in Limbo

Rasputin must have spent all winter with their heads buried in history books, because their latest game Limbo of the Lost is based on the ship Marie Celeste (or Mary Celeste, as Rasputin's manual would have it), whose crew, one stormy November night in 1872, disappeared in strange and spooky circumstances. And so an idea for a game was born. Your job in this CD32 only RPG will be to help the ship's Captain Briggs free the crew's lost souls and save God's book of creation from the four evil horsemen of Apocalypse. We should have a full review very soon.



# Free printers!

estetner have organised a free printers for schools scheme alongside Business In The community and the Tesco omputers For Schools scheme. The idea is that as laser printer

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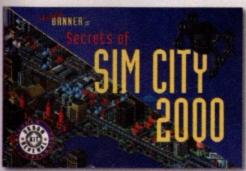
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technology gets better and prices come down businesses are likely to upgrade their current printers for smaller, faster and cheaper machines. By joining the scheme they will undertake to supply older laser printers to schools who are currently running outdated, slow and old dot matrix printers. Gestetner will then service and clean them free of cost.

The benefit to business should theoretically be better educated and more up to date graduates. Gestetner are offering low cost deals on laser printer upgrades as part of the offer. For more information about the Gestetner Schools Scheme call 0990 143157.

Following on from their mind boggling book on Frontier, Bruce Smith has just published a guide to that other great grey matter tester of our time, Sim City 2000. Written by Andrew Banner it consists of 120 pages of hints and tips on both the original game and the urban renewal kit. Although it's in black and white, apart from the covers, Andrew Banner's Secrets Of Sim City 2000 is very well illustrated and the text takes you through all areas of Sim planning. There is also a Q&A section at the back, but an index is, sadly, missing. Still it's a good read and



provides good advice and analysis. It's not for expert users, but for those who casually delve in to Sim City 2000 and never seem to get anywhere it could clear up a lot of errors and muddles. Available from most bookstores or Bruce Smith Books direct, call 01923 894 355.

# **Charts: Amiga top 10**

# TITLE

- 1 Super Skidmarks
- Sensible World Of Soccer
- **Pinball Illusions**
- Roadkill
- **Theme Park**
- **FIFA Soccer**
- **All Terrain Racing**
- On The Ball League Edition Daze
- **Beau Jolly Compilation**
- 10 Mortal Kombat 2

## **PUBLISHER**

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Virgin

21st Century

**Guildhall Leisure** 

EA

EA

Team 17

Virgin

Acclaim

# WANTED!

# TECHNICAL WRITER

A position has become available on the UK's best Amiga magazine for a Technical Staff Writer. The ideal applicant will have an in-depth knowledge of the Amiga, Amiga peripherals and utility software, with demonstrable knowledge of programming and experience using business and art software. Some background in magazine writing would be an advantage, but this may not be necessary as training will be supplied to the right applicant.

The job is full time and based in central London. EMAP Images, part of one of the country's biggest publishing companies, offers a competitive salary scale with benefits, plenty of opportunity for promotion and a friendly, enjoyable work environment.

If you fit the bill please apply in writing with a CV, a list of your Amiga interests and abilities and a covering letter to

Alan Dykes, Editor, CU Amiga Magazine, REF JA102, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

All applications will be treated in the strictest confidence.

# **Spotlight on Amiga**

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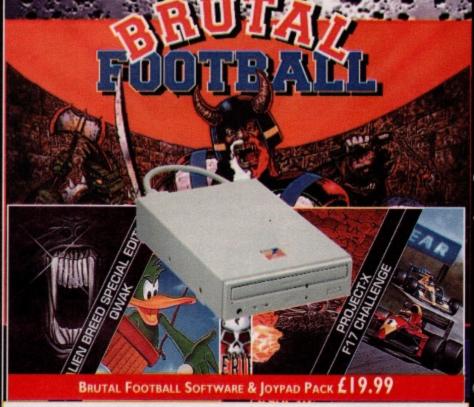
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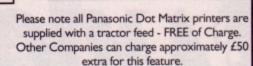
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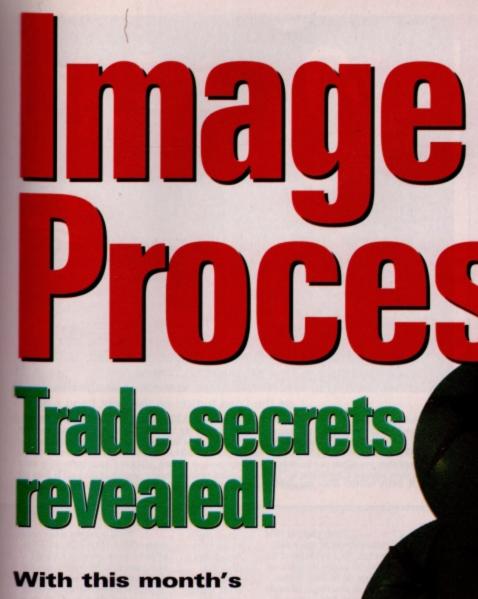
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With this month's excellent cover disk you'll be able to alter images in ways you never previously dreamed of, entering the exciting world of the image manipulation.

mage processing is now more popular than ever. It's used by the world's top advertising agencies, movie makers, special effects gurus and printed media moguls. Over the next six pages we take a look at this upsurging artistic medium and take an indepth look at *Image FX*, a popular image processing package which just happens to be this month's cover disk.

Take a closer look at the picture on this page for instance. Those tomatoes have blue stems, and are green where once they were red. In fact in the original photograph there weren't even tomatoes on her head. And while we're on the subject of the woman, her skin and eyes have been subtly changed to add dramatic effect. This was all done using image processing software. In fact over the coming pages we'll show you how it can be done using our cover disk, along with many other tricks, tips and techniques to allow you to create your own digital illusions.

# ImageFX

ow it's time to get in on the world of image processing yourself. Below you'll find a guide to the buttons on the *ImageFX* control panel and over the page you'll find even more details on our exclusive cover disk.

The program works in a very simple manner, so creating those high tech effects is child's play.

After loading it you'll be presented with a control panel along the bottom of the screen, from which you can access all of the features of *ImageFX*. The top two thirds of the screen show a preview of the image currently being worked on.

This preview is a quick approximation of

the real picture. It allows the program to show changes made to the picture more quickly, rather than forcing you to wait for slow screen redraws.

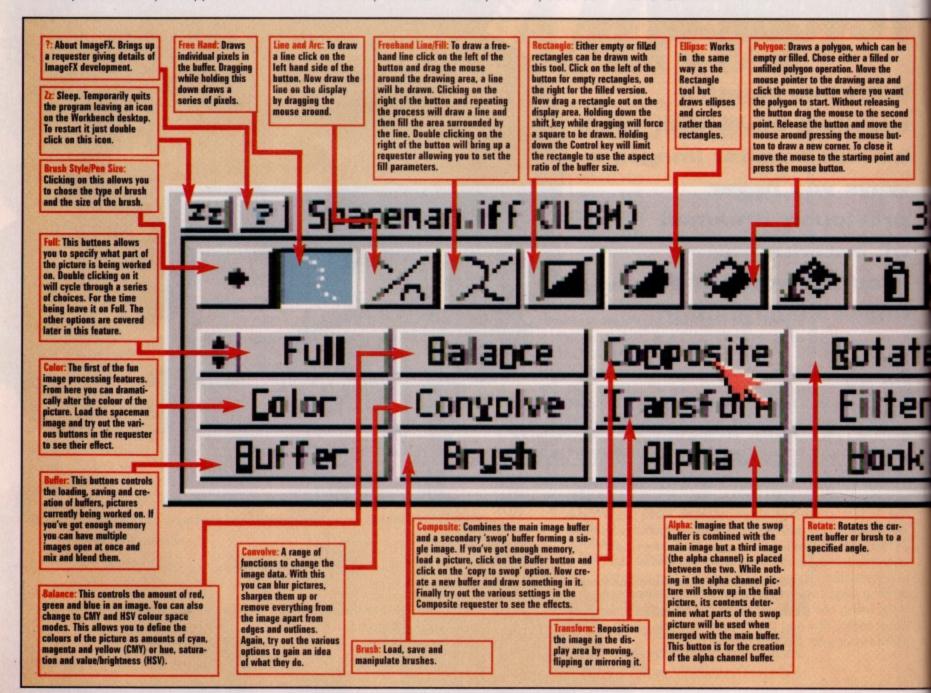
ImageFX stores its pictures as 24-bit colour images, which is why it can take a while to process and display them. The real, high resolution, full colour image is hidden from view, stored internally. If you wish to see the real image you can 'render' it using a chosen screen mode.

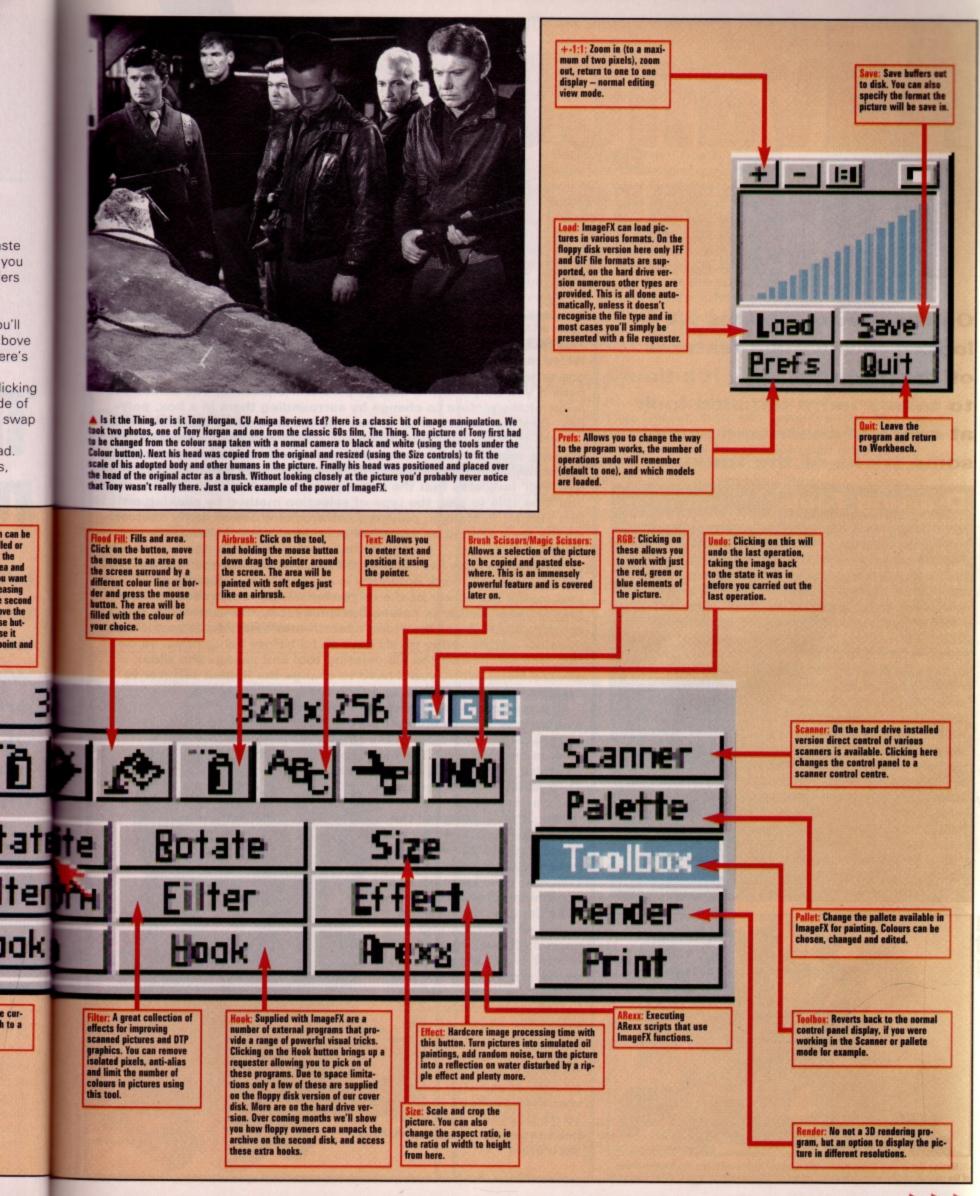
The program can also have multiple images open at once, each held in it's own buffer – assuming you have enough memory. While paint packages such as *DPaint* also have separate buffers they are only used as

temporary storage while you cut and paste between them. With *ImageFX* however you can mix, blend, and combine these buffers to create complex compositions and visual effects.

When you first load the cover disk you'll see the control panel and a black area above it. No image has yet been loaded, so there's no image data to work on.

Now load the space man image by clicking on the Load button on the right hand side of the control panel. You'll be prompted to swap disks. Having done so click on the file labelled 'spaceman.iff'. This will now load. Now you can try out some of the effects, have fun.





3.

# Advanced techniques

On the previous pages we've looked at the main features of the program, now it's time to take a more detailed look at some of these and reveal some tricks of the trade.

# **Drawing Tools**

Double clicking on any of the drawing tools will bring up a Drawing Options requester.

At the top of the requester is a cycle gadget. By clicking on this you can move through a series of choices. These determine how the 'ink' will be laid onto the image. These include matte, which is the standard drawing mode, rub through which replaces the selected areas of the image with parts of the swap screen, lighten/darken which lightens or darkens the paint area (by the amount set by the blend slider) and trace through which draws onto the swap buffer as you draw on the main image, without altering the main image itself – ideal for tracing images when preparing complex cut and paste operations.

The Blend slider controls how much the edges of the drawn area will be smoothed into the main picture, so you can limit the harsh edges of draw operations. The Edge selector specifies how edges of drawn areas are treated. They can be anti-aliased, feather-in and feather-out. The Radius selector determines the area that the feather operation affects.



▲ Monkey Magic! Here the results of a skilful cut and paste can be seen. The hands and head of the monkey have been carefully pasted on to the body of a business man, by Alfred Gescheidt

# **Area Selection**

We've already seen how ImageFX can apply a very wide range of powerful image processing effects to your pictures. But what happens if you only want to change part of the picture? You can select areas of the picture to change by surrounding them in a box, polygon, freehand drawn area, or even define an area by colour.

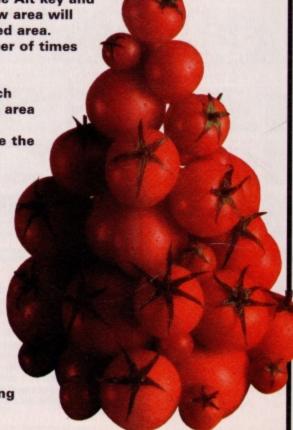
Each of these selection processes works just like its companion drawing mode. To pick the area to process double click on the button in the control panel labelled 'Full'. This is the Region selector and 'Full' indicates that the entire picture is currently selected. You'll be able to pick the type of selection method by clicking on this button. Rectangle, polygon, and freehand are all fairly obvious simply draw around an area as if you were using the same-named drawing tool.

Flood works like the Fill tool. Click on an area of the picture and the program will work outwards in all directions selecting pixels that match the colour of the original pixel. But what about pixels that are very similar in colour, but not exactly the same? You can set the sensitivity of the Flood operation, which defines how close in colour neighbouring pixels have to be before being filled. To do this, double click on the Fill painting tool and change the slider marked Flood. Note, you'll need to change the Region selector to another option to do this, and then set it back to Flood.

If you select an area with the Flood feature and want to include another part of the picture as well, hold down the Alt key and click in another area. The new area will be added to the Flood selected area. There is no limit to the number of times you can do this.

The other setting for the Region selector is Brush which limits the selected area to an area painted by a brush.

Spend time learning to use the Region selectors. They considerably increase the power of ImageFX and a good understanding of them is vital to get the most out of the program. In the picture on our cover, Region Select tools were used to select the whites of the eyes before changing them to a pure white, whilst the tomatoes were selected as an area of red. The colour was then changed to green. To do this otherwise would have required hours repainting each area!



# It's Magic!

The Brush Scissors and Magic Scissors allow areas of the picture to be copied and pasted back onto other parts of the image. The cut-out area can also be used as a brush. You can also copy the brush to other buffers. To use this tool click on the Brush Scissors icon and then click on one of the drawing tools. Now draw as you normally would. The area will be copied. When you now draw, not using the Scissors tool, copies of the brush will be used instead of normal ink.

The magic part of the Scissors function is available by double clicking on the icon. When doing so a small 'M' appears in the icon. In this mode only parts of the area copied from the picture that contain the foreground colour will be transferred to the brush, not the background colours.

To delete the current brush press the full stop key.

# Crimewatch

If you think image processing is just used in the big budget world of Hollywood think again. Normal TV programmes are now starting to use visual effects for all kinds of things.

Next time you watch a Crimewatch program and they show people being arrested or undercover cops in action, check out the pixelisation effects used to cover up faces and car number plates.

This is possible in *ImageFX* using the Pixelise effect and selecting just the face or registration area of the picture.



▲ Having selected the face, the Pixelise mode was applied — this aptly shows how region selection can be put to real use.

# **Hot tips!**

# Cut It!

HPT

When you cut out heads or areas with lots of detail around the edges it will always be difficult to perfectly cut around every nook and cranny – particularly were hair is involved. But there's a neat trick to cover up

the mistakes and general lack of detail at the edges. Double click on a drawing tool and select the Feather In mode for the edge. Now select a radius of around 3 pixels. Now when you cut your head out and paste it will be pasted with the edge detail delicately fading away, covering up the rough edges in a slight blur.





# **Neon Lights**



To create a neon light type effect load an image and select Edge Detect under the Convolve tool. Next apply the Negative operator from the Colour options and finally apply a strong Sharpen function (also found under the Convolve button). This changes the picture to look like it's created from neon lights.

A charcoal effect can be created in a similar way. Apply an edge detect to the picture. Next convert it to grey and finally apply a soft blur to the image.

# Speed Up



Some of the image processing effects possible in ImageFX require huge amounts of intense calculations to be carried out. For this reason on the slower Amigas some of the Hooks and Effects can take a long time. If you are just trying an effect out or experimenting with possible effects, waiting several minutes or even hours

to see a result only to instantly undo it can be very annoying. If you want to quickly try something out use the Region selector and try the effects out on just a small part of the image first. If you like it you can then apply it to the whole picture. If you don't you haven't waited too long.

# **Techno Colour**



Experiment with the colour manipulation tools. Image processing isn't just about distorting the position of pixels but also colour. Changing a picture's colour can completely change its look. Mess around with the Colour and Balance settings in *ImageFX*, try out extreme values and you'll see how different colour changes can

make a picture look.







▲ Just some of the potential colour effects possible with ImageFX. Try applying different colour effects and mixing them with convolve operations for even greater impact.

Cinemorph

On the disk alongside the ImageFX icon you'll see an icon labelled CineMorph. With this you can take two images and create a series of inbetween pictures that show the first picture transforming into the second. A recent example of morphing is the Danny Baker soap adverts where he changes into a different presenter as he walks across the street.

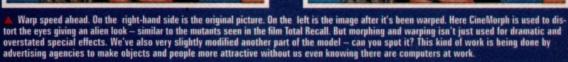
Alternatively you can take one image and stretch or distort it creating a visual effect that would otherwise be too expensive or time consuming, if not impossible, to create.

We'll examine *CineMorph* in detail in a future issue, but for the time being here's a quick guide to let you try out the warping capabilities.

Load *Cinemorph* by double clicking on its icon. Now click on Load Image from the Cell menu and open the spaceman picture from cover disk 109. Now click on the right hand window and open the image again. You'll now see two pictures of the spaceman side by side in the windows.

Over the top of both pictures is a grid of intersecting lines. These break the picture up into small squares. By dragging the lines around you can stretch or distort parts of the picture under that square. If for instance you had a picture of a face, by dragging out the squares around the mouth or eyes (as we've done with the picture shown here) you could stretch these features of the face producing a distorted look. Also under the Cell menu is the Edit Tweening function. Click on





this and then on the button labelled Flat when the requester appears. This sets how quickly the changes will be made over the duration of the warp. By flattening the tweening out you are telling the program to apply all of the warp distortions in one go.

Now drag around the intersection points of the grid in the right hand window and then click on the Preview Single option under the Morph menu. Another requester will appear asking which frame you wish to preview. Move the slider to the far right (frame

25, the final image) and click on generate. After a few minutes your warped picture will appear.

You've probably noticed that the pictures displayed in the two windows are greyscale pictures, not colour. Don't worry, the colour data is still there, and the final picture if saved to disk will be in colour. The program uses greyscale versions to speed up display times.

NOTE: To use CineMorph you'll need at least 4Mb of RAM.

# **Evolve with Convolve**

When you first use ImageFX you'll probably try out a few of the Hooks and Effects and then try out Convolve – that's what we did. At first the things possible with Convolve seem pretty dull compared to the Explode, Ripple and Pixelise functions. While some of the Convolve operators can be very useful they aren't exactly exciting.

However, there's more than meets the eye. Click on the Custom button of Convolve and you'll be presented with a requester. Now click on the Load button and up will pop a list of convolve operators. The custom button allows you to create your own convolve effects, which we'll cover in more detail in a future issue. But with the load button you can load a range of predefined convolve operators, many of which provide interesting not to mention useful effects.

Try them out, if you don't like it you can always undo them. As with colour it's also worth trying out several convolves one after another for combie effects.



▲ This is a simple but easy to do trick. Similar effects are often used in print advertising. To do it copy an original image. Now create much bigger buffer and paste it in the middle. Now scale the brush and paste over the top repeatedly.

# Image FX ... The future

You'll now have a pretty good idea of how the *ImageFX* cover disk works. However, there's a lot more to it.

Over coming months we'll be running comprehensive tutorials revealing the hidden secrets of this program, starting next month with a look at CineMorph.

If you enjoy using *ImageFX 1.5* or find it useful we recommend you upgrade to version 2.

This is a major upgrade of the program, it contains many additional features and it is just oozing with extra image processing capabilities and tools, many of which are similar to the best that Mac and PC programs offer.

If you want to know more about ImageFX 2, or would like to upgrade (the upgrade offer, detailed on page 10, is only available for a short time) call Wizard Developments on 01322 272908 during office hours.

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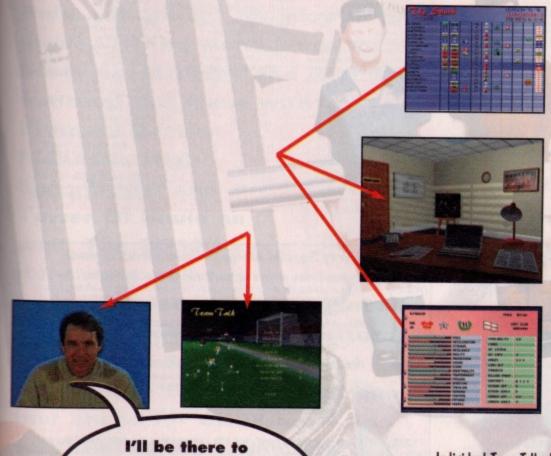


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For more detailed information please write to Anco, 7 Millside Industrial Estate, Lawson Road, Dartford, Kent DA1 5BH Screenshots are representative of gameplay only and may vary from format to format. Player Manager 2 requires a joystick.

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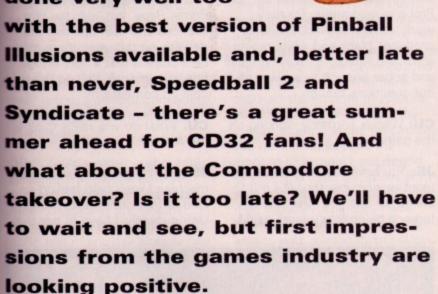


D'S

- £259 kit £25 Great games section for you this month, if I may say so. The smart and unusual Pizza Tycoon heads up the reviews sec-

tion - a game I never actually
thought would be converted, but
there you go eh? It's nice to be
proved wrong sometimes. In fact
business, strategy and RPG is well
featured this issue with

Ultimate Soccer
Manager, High
Seas Trader and
Tower Of Souls as
well. The CD32 has
done very well too



# TIPS

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# Primal Rage

Due for release: Autumn 1995 🖪 Publisher: Time Warner Interactive © 01604 602800

Don't get even, get mad. If big apes or dinosaurs have been threatening you recently you probably need to develop some Primal Rage which, funnily enough, is what Probe are endeavouring to do ...

ot satisfied with beating up American teenagers in red karate pyjamas? Had enough of mutants ripping and slashing each other apart? How about setting a couple of prehistoric animals against each other then? Primal Rage, Atari's most successful recent coin-op has been around for a nearly a year now and is due for conversion to almost every computer and console format in existence.

Apart from the use of primates and reptiles instead of humans or humanoids, Primal Rage has gained praise for they way these characters were actually generated. This was done using stop frame animation of real models, superimposed over a nifty scrolling background.

Luckily the techniques used were more advanced than Godzilla. and involved a crew of 30, which included Hollywood credited animation experts, working on creating the models and then painstakingly animating them. All of this has resulted in a coin-op that weighs in at over 32Mb.



And this is where Probe come in. As the company which converted Mortal Kombat and Mortal Kombat 2, Probe have become experts at compacting massive arcade hits into small disk packages and multi-button control into successful single button joystick control.

But how do they intend to make the game playable without 32Mb of ROM?

We tried to talk to producer Robert O'Farrell B.A.R.G. (the initials apparently refer to a degree from the University Of Life or something, but this was not

clear to us) to find out. but he was away from Croydon offices collecting a

made

Golden Joystick Award (the games industry's Oscars) for Probe in recognition for their work. James Stewart, assistant producer, black and white movie actor and Amiga fan was on hand and sober enough to answer all our questions though.

CU: Who is currently working on the game?

JS: You have the majority of the team responsible for MK I & II to blame for this one. The only difference being that we are using

the graphic artist responsible for the (Sega Megadrive) Genesis version of Primal.

CU: Are Probe doing much on Amiga at the moment?

JS: The only Amiga games we seem to be doing are conversions from console based systems. At the moment there is nothing in the pipeline apart from Primal Rage, but with the film licences and coin-ops that are developing this year, there may be a chance that a new Amiga title will emerge. Roll on the next coin-op conversion!

CU: What do you really think of the Amiga?

JS: Having grown up with the machine I can't help feeling a kind of fondness for it. Unfortunately, I have to say that







new console technology has almost beaten the poor machine into the software graveyard.

**CU:** What do you think of the the Escom news and, if it's now been outdated what lies ahead for the Amiga?

JS: I don't know much about Escom's takeover, all I can say is that they are a large German company with loads of cash so it has to be good for Commodore and the Amiga in general. Unless a new machine is built to compete directly with the likes of Sony's PSX and Sega's Saturn, and built quickly, I feel the Amiga's days may be numbered.

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**CU:** Why was Probe chosen by Time Warner Interactive to convert *Primal Rage?* 

JS: Why not pick the best?

**CU:** Don't get shirty. Just how easy is it to go about converting an arcade game to computer or console?

JS: I could waffle on about this for ages, but I won't bore your readers. Conversions are less time consuming that original games as the basic artwork, code and music has already been done for you. All that is needed is a team to convert the original data into a format that is compatible with the system and reduce it to a manageable size. The ability to do this well is something that Probe has been renowned for over the years.

CU: Which formats are the hardest to convert for?

JS: Strangely enough you would have thought that the new systems would be the hardest to convert, however this is by no means true. The Genesis is proving the hardest because it is having to be written as a line by line arcade conversion, whereas all the others are using compilers or are being re-written using our own genius (for handheld versions). Fitting the game into a 24 megabit (about 3Mb) cartridge is proving to be a lot harder than we previously imagined but we are getting there. The Amiga version is being sourced directly from the Genesis, so arcade perfection is almost guaranteed.

**CU:** What will be the major differences, if any, between the Genesis and Amiga version and the arcade game?

JS: The hardest part [of losing around 28Mb (!!!) in converting the game] is to keep the fluidness of the arcade. In the arcade approximately 900 frames of animation are used per character. In the Megadrive we have reduced this to 250 frames. We have reduced the amount of colours used from 64 per sprite in the arcade to eight in the Megadrive. We have also reduced the amount of samples and sound effects and used out latest compression techniques to squeeze it all together. The result will hopefully be the fluidity of the arcade with gameplay to match.

**CU:** Will the Amiga version be as fast as the Genesis version it is ported from?

JS: It better do or I will want to know why!

cu: OK, that's all for now thanks. Next month I'll be back with more probing (geddit?) questions like, "how the hell are you going to get all the special moves to work with a single button joystick?" Hello? ... James, are you still there?

**Alan Dykes** 

### Super Street Fighter I

■ DFR:June ■ Publisher:US Gold © 0121 625 3366

asses of grown men are getting desperate

desperate for the Amiga release date of this most successful coin op of all time. It's nothing do with the fact that Cammy (Kylie's bid for movie stardom) might spend a lot of time showing off her bottom. No, they're getting ready to throw their social lives away and settle down to some serious fighting.

And who could blame them? Freestyle Software, headed up by Kevin Norburn (ex Gremlin Graphics and Core Design) have spent nine months on this conversion and seem pretty confident that it will be every bit as good as its console cousins.

Having previously worked on Pitfall – The Mayan Adventure and a series of Mega Man games, this Sheffield based company has devoted special attention to making sure that the speed will match the original. They say that a slight reduction in the size of the character graphics and a special storage system will enable, for example, the A1200 game (SSFII) is due for release on all Amigas) to run at a similar speed to the SNES version. Allowances have also been made for one and two button joysticks to ensure easy access to all the moves.

There are some new faces too: Fei Long – Bruce Lee lookalike, T Hawk – butch Mexican character, DJ Maximum – a Jamaican heavyweight, and



finally the Force's sweetheart -Cammy: the English rose who likes to play dirty. There is a new scoring system too where you earn extra credit for getting in there first with the blows, recovering quickly and multi combo hits. Sounds great so far, we just can't wait until we get to see it in its finalised form.

Lisa Collins

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## Coala

#### Due for release: TBA ■ Publisher: Empire © 0181 343 7337

light sims – you either love 'em or hate 'em but there's one thing you can't scape, they're all ...er.. a bit the same. The basic theme is, stick yourself in an aeroplane/'copter,

take to the skies and blast the hell out of anything that crosses your path. So the burning question is will Coala offer anything else that TFX, Dawn Patrol and the like haven't done already? Bitfusion, the Netherlands based company

behind the game, say that Coala is more than just a flight sim, it's a "3D battlefield helicopter flight sim with a God element thrown in as well".

So what's the God bit about? You don't have to take part in the battles if you don't want to. You can set up a conflict, and sit back while the two opponents sort it out amongst

themselves. However, you can join in if you want to.

The other buring question is why the name Coala? It's a

bit odd to have a cute furry animal's name as a title for a war game isn't. It's a joke. No really, I'm not being sarcastic. Bitfusion thought it would be a bit of a giggle and to add to the mystery and to make the game sound a bit 'harder' they dropped the letter 'k'. You guys, you kill me.

Coala is Bitfusion's first venture into computer games. Previously, they concentrated on VR presentation software using their custom VR system 'Navigator', which has

been used to create Coala.
Bitfusion's Michiel Den Outer is hopeful that Coala will prove better than games such as TFX and boasts that, unlike TFX, Coala runs on non-AGA Amigas, disk swopping is minimal and there's a new fangled sighting system to make dogfights less fiddly and more playable. All this remains to be seen in the review copy, so until then check out the piccies.

Lisa Collins



## Lost Eden



#### ■ Due for release: May '95 ■ Publisher: Virgin Interactive Entertainment © 0181 960 2255

s CD-ROM comes of age and developers learn how to take advantage of its speed and memory, the games produced just get better and better. The biggest criticism of beautifully rendered, all singing and dancing multimedia software has been that it's all show and no gameplay, and sooner or later these assets will have to be combined.

The only two games to really take advantage of the CD32 so far are Simon The Sorcerer and Microcosm, games that would have taken up more hard drive space than most Amiga owners have, with sampled speech and smooth, textured graphics. Well Cryo, the French team responsible for Dune 2 are

attempting to convert a PC developed game that will surely show the way forward for Amiga CD. OK, the graphics have been created in PC 3D studio but the conversion process is going to stretch the CD32 (and the creative powers of the programmers) to the limit.

The basic story will sound familiar to anyone who has read the East Of Eden series of SciFi Fantasy books. It's all about an ancient race of humans who inhabit the same earth and have learned to get along together, until misguided humans start taking advantage of the dinosaurs, treating them as second class citizens and the like (hey, they're lizards after all). But an even bigger threat comes from the north: Tyranns,

tyrannosaurus,
equipped with
powerful brains
and nasty tempers are seeking
to destroy both
humankind and
the other, more

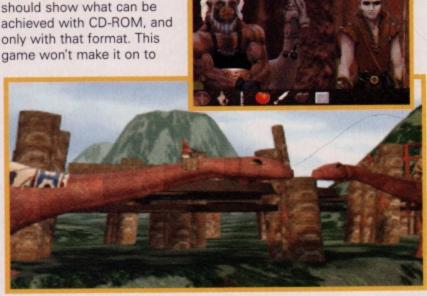
peaceful dinosaurs.

And so to the cliché: a young prince sets out to save the world from the tyranny of the tyrann helped by a couple of strapping young pterodactyls.

The graphics, animation and speech sync have to be seen to be believed and the storyline and puzzles look very involving. Most importantly though, this game, if properly ported, should show what can be achieved with CD-ROM, and only with that format. This

floppy disk on any machine, PC, Mac or whatever, and if this encourages more CD-ROM development for the Amiga and CD32 then we'll be much better off in the long term. Well done Virgin for persevering with the project.

**Mark Davies** 



## Sensible Golf

Due For Release: May 1995 Publisher: Virgin Interactive Entertainment © 0181 960 2255

magine the war was over, ie you've completed Cannon Fodder 1 and 2, and good old Jools goes home to Spriteland for ever. Suffering from post traumatic stress disorder, he gets a healthy war pension, which, along with selling his war memoirs 'Life and death at the point of a mouse cursor', sets him up for a life of leisure and ... golf.

Sensible Golf is a game for up to four human players or a combination of humans and computer generated characters. There are four computer opponent difficulty levels; easy, medium, hard and wicked, with four variations on play, including matchplay and skins and there are 25 courses.

But that's where the similarity between it and other golf games ends. Forget about your clubhouse and your Seve Ballesteros, your Scottish Open, St. Andrews and Pebble Beach. Say hello to Jools and John (those well known international golfers) and Saffron Walden municipal golf course.

Another world renowned course from the south of England, Sutton, is regularly visited by CU Amiga Magazine's Deputy Ad Manager Chris Perera, but according to him "... this isn't Sutton".

Where every other golf game (or sim as they like to be called) prides itself on accurate reproduction of every dip and curve, course foible and sand trap, Sensi



▲ The courses are not straightforward in this game rather they are made up of lots of booby traps.

Golf prides itself on being a bit more original. Most of the courses consist of vast tracts of sand with islands of fairway and dastardly water traps breaking up the map. All of which contrives to make a humorous change from the standard, American slanted, PC derived game we're used to.

The Characters are slightly larger than their Canon Fodder brethren, but still small enough to be a Sensi trademark. However, they are scaled up considerably once you get on to a green, where accuracy is of paramount importance and directional arrows show you the gradient, bumps and troughs which are likely to effect your shot.

Control is by joystick only, and after the appropriate club has been selected a speedometer style power dial appears which



The sprites although still small are a bit bigger than their Cannon Fodder counterparts.

allows curve balls etc.

Although it's non quite finished yet (it's been not quite finished for nearly six months now while SWOS and Cannon Fodder 2 got preferential treatment), the basic structure of the game has been proven to work.

Due out in May there's still work to be done in terms of gameplay but if Sensi can get it right it should prove very popular indeed.

**Alan Dykes** 

### Colonization

Due For Release: June Publisher: Microprose © 01454 326532

e're megalomaniacs, we're megalomaniacs ... we've got four star con-n-tracts.... oh dear wrong lyrics, right sentiments. Yes, you've guessed it Sid Meier's

PC classic *Colonization* is a comin' to the Amiga. Propel yourself to a time somewhere between 1500-1800, somewhere in the Americas, grab yourself some settlers, whip and beat them into doing your bidding (or gently

direct them, if you're a wimp) and you've got yourself a colony. That's the general gist of the idea behind the game – every powermonger's dream. Sid Meier after much success such in the PC world and with classics such as Railroad Tycoon and Civilization under his belt has spent two two

years perfecting Colonization. The control system will be similar to Civilization, where you move ships and colonies either over tiles of land or sea that are gradually revealed to the player.

However, MicroProse, are keen to point out that the similarity stops there and that *Colonization* is NOT a sequel to *Civilization*, instead borrowing some of the ideas of its famous predecessor. *Colonization* promises to be more exploration based.

You begin as a famous explorer who has to brave the elements and set off across uncharted land to build a colony.

There will be two setups in Colonization: one will have a geographically realistic game map



A Hi guys, anyone up for a bit of looting and pillaging. We've got the weather for it.

and other will be randomly generated. You control either the British, French, Spanish, or Dutch in a bid to take over the New World and prevent the others from doing so.

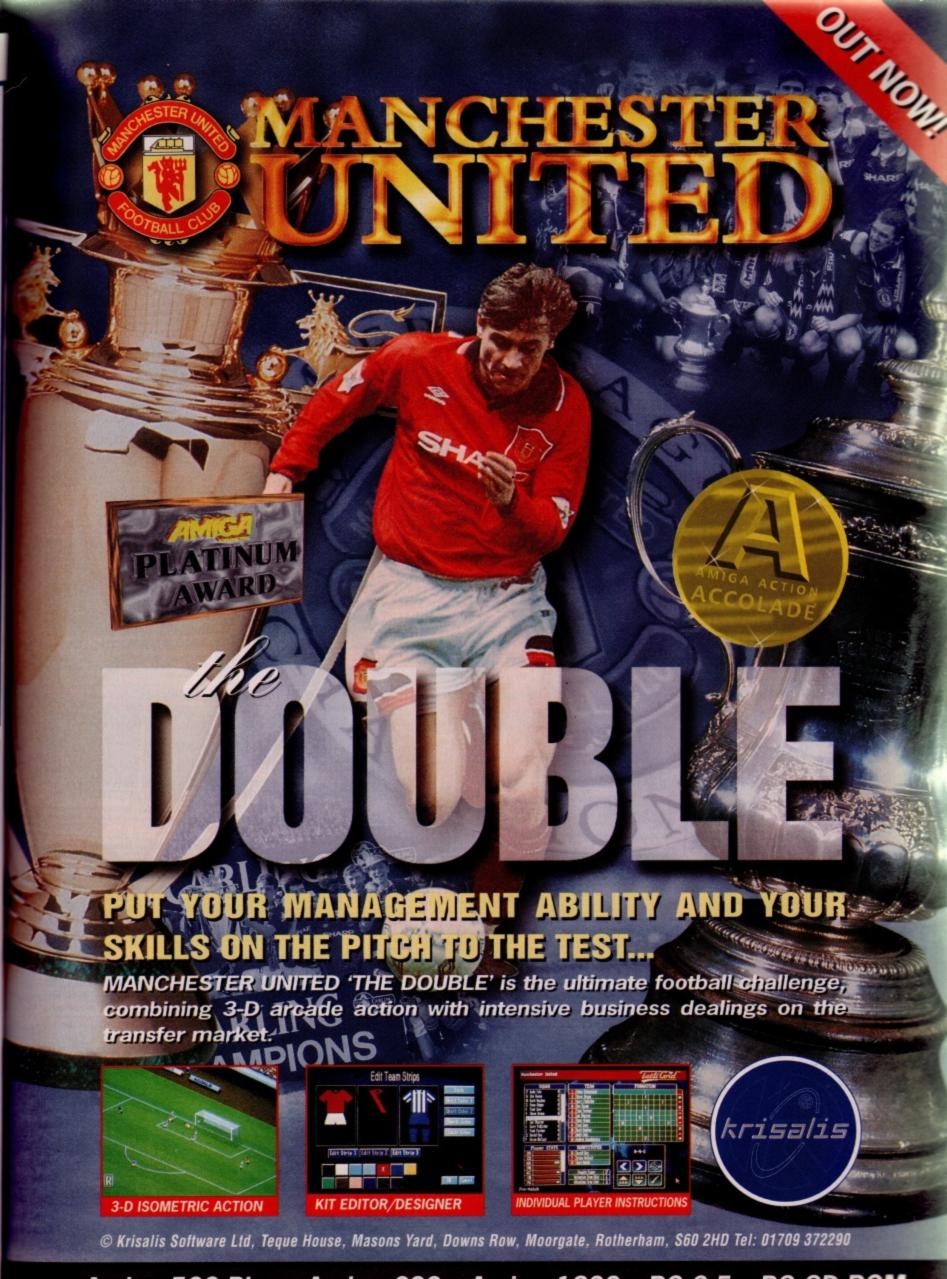
All the usual colony building shenanigans such as trading and feuding will be in there, with lots more besides.

We should have a full review next issue.

Lisa Collins



Building a colony is not an easy job. There are houses to build crops to plant, livestock to tend to, people to keep happy ...



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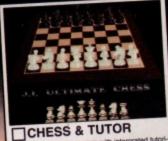
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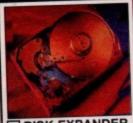
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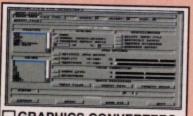


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## Pizza Tycon



■ Price: £29.99 ■ Publisher: Microprose © 01454 326 532

## Conquer the pizza world in Microprose's latest sim. But go easy on the anchovies OK?

rikey, Microprose in humourous game shocker. That's right, those purveyors of fine quality but oh so serious sims have produced, well, another sim, but managed to inject plenty of Theme Park style humour this time round. Pizza Tycoon deals with with all aspects of pizza

emporium management and starting off with an insignificant little
number of shops on the quiet
side of town, the not so simple
aim is to create a fast food global
empire to rival the likes of
McDonalds and Burger King
whilst running your competitors
into the ground at the same time.

The game itself can be played

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▲ Get your pizza parlour noticed by advertising in the papers, on hillboards or the TV. TV will get the most punters in, but at a price.



▲ Chefs, waiters and managers all need to be hired to keep things running smoothly.

in two ways. 'Free mode' doesn't have a specific aim and allows you to play as you wish for as long as you like in a similar style to Maxis' Sim games. 'Mission mode' presents a number of CVs to choose from, with the ly as possible. Choosing a country in which to start your empire is the first objective and Berlin in Germany is recommended for beginners as the rents are comparatively cheap here. Any property available can be rented or brought outright, but with the limited funds on offer at the start of the game you're most likely to end up rent-

#### First things first

ing a property on the cheaper

outskirts of town. Whether you

chose Berlin or not, setting up

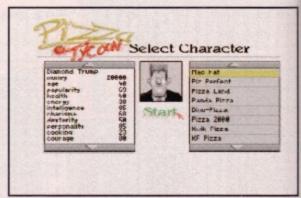
the whole operation is an

expensive business.

First off the premises need to have flooring, furniture and most importantly one or more ovens with which to cook the pizzas. A range of customer pleasing extras such as Space Invaders machines are also available. Products come in a number of price ranges and it's important to get the mix between cost and quality right. This is because the site of each restaurant will be in a particular catchment area. For instance, the centre of town is more likely to be populated with business types so if based there you might want to design a sleek modern-looking restaurant whereas a cosy look to attract



aim being to relive that particular life as closemathematical particular life as closemathem



▲ Diamond Trump is one of the best characters to pick as he has plenty of cash and good attribute ratings.

the middle aged would be more suitable in the suburbs.

Once the fittings are complete it's time to look at hiring some staff. Waiters or waitresses, managers and of course chefs all need to be hired to keep everything running smoothly. The more staff you have the quicker the pizzas will hit the customers' tables but of course the more expense you will incur.

There's a range of staff to choose from and depending on how they perform you can raise or lower their wages, send them on numerous and expensive training courses or simply sack them there and then.

Your own character can be chosen from a number on offer, some of which are blessed with more cash than others. While it might seem obvious to pick the character with most money it isn't necessarily so.



Keep up with gossip in the newspaper. If a professor announces that a certain ingredient is dangerous that a certain ingredient is dangerous take it out of your pizza quick or suffer the consequences.

Characters also have a range of attributes and rich ones can prove unpopular for instance. This can cost more in the long term as companies will try and charge more for contracts because they know you have the capital to spend. The best bet is to try and choose a character with average attributes and finance or one who fits your playing style.

Publicity also plays an important factor in drawing the crowds to your restaurant, especially in the early days. Press, radio or television campaigns can be conducted to try and spread the good word about your pizzas to as many people as possible. Unfortunately by the time you get to this stage funds will probably be running low, so a quick trip to the bank will be in order.

#### Dodgy money

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There's a number of different banks to choose from but unlike real life most of them are happy to chuck cash your way. The interest rates aren't too extortionate either so keep an eye on the size of loans otherwise the repayments will become impossibly large to manage and 'game over' will beckon. Should things become really desperate then it's

possible to borrow money from guys are not to be messed with your competitors will too. Thankfully it's not all bad news and if you find yourself well and truly in the black then pay off loans outright or invest the money for a guaranteed steady income.

Other than staff and image, keeping an eye on market research and the newspapers is important for success. From time to time a respected professor might announce that a pizza ingredient is vital for dieting for instance and if one of your pizzas has that particular ingredient or you are quick enough to change your ingredients to make sure it has then you stand to make a killing. Equally there could be a health scare and if your pizzas contain the culprit ingredient it's advisable to get rid of it quick or watch the business plummet. Altering the pizza ingredients is a key part of the game.

A menu book is provided containing ingredients for the ideal Margherita pizza and the like but

the shady characters of the underworld either outright or from getting paid for carrying out illegal tasks. As you can imagine these and if you risk dabbling with the underworld then it's likely that

OR: ENBURG ESTATES

▲ Top up cash reserves via a quick visit to the bank. It's also possible to pay of loans or invest any spare capital.

#### Thin crust or raw chicken leg?

Making pizzas from scratch is a key part of the game. A menu book provides recipes for creating standard pizzas, but it is possible to enhance these or even create new masterpieces from scratch. Then it's over to the public to decide whether it's a hit or miss.



Starting off with a sensible base of tomato, garlic and three cheeses I went slightly avant garde with the addition of a raw chicken leg.

Surprisingly it wasn't as unpopular as you'd think but it's still unlikely to top the best sellers list. Back to the drawing board methinks.



these can be changed to create an even better eat. Pizzas can also be created from scratch and it's possible to create the most disgusting recipes as well as new classics. New pizzas are tested on all walks of life from school kids to businessmen and they award an overall rating for taste and value. Get a good percentage and you're on to a winner.

#### Mixing business and pleasure

Like Theme Park, Pizza Tycoon blends the statistic heavy business action with some comedic touches to great effect. The characters and situations in the game are at best strange and at worst downright weird. But unlike On the Ball, gameplay is never hampered by these events but rather enhanced.

Ignoring the horrendous loading times from floppy, my main criticism with the game is that you're limited to making pizzas. Surely even the most shabby of pizza parlours dabble with the likes of lasagne and deserts. Creating new ice cream flavours is something I'd definitely like to try! It would be nice to be able to get involved in the pizza home delivery service too. Judging by the amount of junk mail pizza adverts that get shovelled through my door on a daily basis, this is obviously a fiercely competitive

side of the pizza market and would be well worthy of a data disk addition in the future. The fact that you can create your own CV or try out the preset missions gives the game plenty of lastability, as does conducting various shady deals with the underworld. And having restaurant managers takes out the tedium of keeping check on stock and the like. Overall, Pizza Tycoon is a vastly enjoyable game and assuming you have a hard or external drive

is well worth the dough. **Rik Skews** 

#### PIZZA TYCOON £29.99

1		
	A500 A500+	workbench version1.3 + 1
	A600	graphics 86%
	A1200	sound
	A1500	playability 85%
	A2000	OVERALL OF SIME OF COMMENTS
	A3000	Plenty of sim action to get
	A4000	your teeth into.

## Ultimate Soccer Manager

■ Price: £34.99 ■ Publisher: Impressions © 0171 372 7435

Football management games. Train spotting more like. How can you get enjoyment out of poncing around with a team's structure and finance? Where's the thrill?

f football management games were solely about strategy and statistics then we would be on to a winner here. And no one is more experienced in strategy field than our old friend Impressions, hence the inclusion of a business game option in Ultimate Soccer Manager. This, along with match rigging, bungs and general shady dealing are its main gameplay-related unique selling points.

You can play the game as either a straightforward train 'em, buy 'em, pay 'em and position 'em simulation, keeping your players happy and developing their skills, or you can add in the additional headaches and mighty challenges of building a proper first division style business

empire, with sponsorship etc.

This business game continues in the background whether you select the option or not, it just isn't handled with flair. This may not be a disadvantage at first. You will never make wads of cash with your assistant manager in charge, but you could lose some if you take over the reins before you really know what the game is all about.

#### **Yeovil for the** winners cup

Ultimate starts off with a choice of teams from the premiership, first, second, third and conference divisions. You can edit the stats of the players on the teams you pick, but this is cheating; this way you could take Yeovil Town or Woking, bottom of the confer-

ence tables, change their player stats to 99 in all areas and win, win, win. Ha! No need to spend any money buying in players when yours are better than the Premier division's! Selling them will eventually realise a fortune too. However, things are not all rosy if you take this option from the start. As your players perform well, their

value increases and the lure of a top division club may get too much for them. Once their skill has been proved in the first season, you will have to regularly re-negotiate contracts and pay them much more than you really should have to. Even then they

might get a bung or a better offer elsewhere, and you'll lose out at a transfer tribunal ruling or through retirement.

The difficulty level is selected by how much money you start off with. This can be anything from £250,000 to £5M, depending on how skilled you become. Although £250,000 sounds like a lot of money, when you scan the transfer market you won't find many decent players for much under this. Also, the minimum amount for upgrading the terraces is £250,000.

Following this is the option screen which, among other things, allows you to turn the management game and match rigging on or off. Next you'll see a disclaimer screen. You see, all this bunging and rigging might not please the real life managers and players referred to in Ultimate Soccer Manager, because most of them would never dream of engaging in this sort of thing. Oh no.

#### 3D isometric viewpoint

The game consists of six main zones, each of which has its own separate sub-screens. The opening screen is a 3D isometric view of the grounds and the surrounding area. Using this you can click on any of the five other areas immediately available; the bank, the playing field, the training ground, the manager's office and the chairman's office.

As usual the manager's office is the centre of the action. It contains a filing cabinet, fax machine, telephone, a notice board and a desk, upon which you will find a newspaper after most matches.



▲ The chairman. You can wilt his plant, knock over his photo and fiddle with his light switch. Just make sure you fill the ground.

The filing cabinet has four drawers, the top one lets you see the status, stats and pay of your players. The second lets you see the state of the club in historical terms. The third is a record of how well you as a manager are doing and the fourth is a miscellaneous drawer with various statistics about the chairman's confidence, fan's confidence etc.

The fax machine is where you arrange friendlies, look at the transfer lists, buy and sell players and receive bills (or in some cases get nice things like tax rebates). The phone is for your more shady dealings; rigging matches, betting on the outcome and offering bungs.

In terms of transfers you will find it impossible to get a top division player to move to the lower echelons, even if you offer dodgy bungs. The only way they will move is if they are dissatisfied, but you run the risk of losing them again unless you pay

them enough.

On the subject of bungs and match rigging, to try this you'll need wads of cash ... and luck, 'cos the old football authorities frown on this sort of thing. If you offer a bung more than four or five times without succeeding you could get investigated and fired. That's the end of the game by the way, so it's a good job there are ten save game slots.

### Get your hotdogs here

From the main isometric screen you can click on any of the shops,



Lets get some more players up front with a few quick substitutions. uperman looks like a likely lad.



▲ The newly promoted Yeovil town are about to take Brighton and Hove to the cleaners.



• office. Clicking on the fax machine elicits a east, ear splitting, annoying digital fax sample. Great patting rid of unwanted guests.

and restaurants you've built
adjust the prices that are
ang charged. With the business
are on you will have to offer
cople more than just a good
atertaining game, you need to
cep their tummies full and give
am good value for money in
cam souvenirs. This merits concant attention because people
all pay much more for souvenirs
and refreshments when a cup or
curopean fixture is at your
counds than for a normal
cague game.

Building pubs, shops and new stands costs money and this can be obtained by getting sponsorable and advertising. Here the sessistant manager will help out by ling up hoardings as soon as bey become free. Unfortunately be not very business orientated, you're better off switching him aff and choosing them yourself.

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The players are rated from 1-99 in seven categories; keeping, ackling, passing, shooting, pace, tness, and age with the best

strikers naturally havng the best shooting
ability and the best
defenders having the
best tackling ability.
Age not only effects
fitness, it also determines the player's
ability to improve
and his likelihood
of retirement.

#### **Expensive** trainers

You can hire trainers in most of the above

areas, though you're only allowed five coaches so you may need to fire them as better ones become available. Coaches are attracted by high pay and successful teams.

The interface for selecting the team and formation is easy to understand and operate, with a tool bar which will take you to any area of the game by right-clicking the mouse.

The game itself is viewed from above and the pitch takes up the left hand half of the screen The

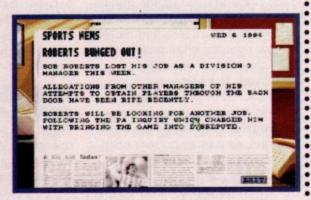
right-hand side has a pause button, an instant replay button, a speed button and a 'subs' button. Before you start play there is the option of getting an instant result, but if you decide to watch the match right through, the speed button will allow you to move faster by a factor of up to eight. By clicking on the pause button and then on a player you get to have limited control over

their actions by ordering them to play up, back, right, left and in the case of defenders, man-to-man. By pressing the 'subs' button you will have the opportunity to either substitute a player or change formation and style of play.

#### Conclusion

Ultimate Soccer Manager does not quite live up to its name. Ultimate Soccer Strategist might have been a better choice. Ascon's On The Ball series remains top of the management pile, largely because of its genuine footy atmosphere, whereas Ultimate is a worthy strategy and statistics game that really just happens to be about football. To get the most from it you really do have to play the full business game and it takes a while to get into the swing of things. The player interface is good, the graphics are good and it's addictive. It's just not brilliant. More for strategy fans than pure football ones.

**Alan Dykes** 



▲ Er, the end of the game. Oh the shame! Newspaper reports are interesting but get a bit repetitive (except this one).

#### **ULTIMATE SOC. MANAGER**

A500 +	workbench version1.3+ number of disks4 RAM1Mb hard disk installableyes				
A600	graphics 80%				
A1200	sound				
A1500	playability81%				
A2000	OVERALL				
A3000	A top strategy game, pity about %				

TEAR DOWN THE CHEQUERED FLAG TO CATCH A GLIMPSE OF THE **FASTEST** GAME OF 1995 (AND A UNIQUE £5 **CASH-BACK DEAL!)** MARK

the football.

## High Seas Trader

■ Price: £34.99 ■ Publisher: Impressions © 0171 351 2133

Swashbuckling action ahoy as Impressions take to the seas with their latest strategy sim.

hink of Elite, or indeed Frontier, but change the spacecraft to an old wooden boat and all that space to oceans' worth of salty sea water and you've got High Seas Trader. It's a trading sim, set in the 17th century (1651 to be precise), but unusually features a plot in addition to the trading gameplay.

The plot centres around the player's father who was ruthlessly treated by a vicious earl and ended up dying penniless and miserable. Therefore part of the aim in High Seas Trader is to regain your father's lost honour and through the accumulation of wealth and stature return yourself to your rightful position in society as a viscount.

Accumulating wealth is a difficult process when the game begins. Starting off at your home port, you begin with a small amount of gold coins but these quickly disappear as soldiers, sailors and apprentices need to be hired to man the different sections of your ship. Apprentices are cheap but their skill level isn't high, while soldiers are skilled professionals who demand high wages. Not paying wages will severely dampen the crew's morale. The crew also require provisions to keep them alive while travelling from port to port and this depletes your cash reserves further. As does the need to purchase weapons, both handheld and cannon shot, in order to warn off the pirate menace.



▲ In the charthouse you can pick up maps for newly discovered areas just waiting to be traded with. This is also where you'll find a helmsman for hire to take care of all the difficult seabound manoeuvres.

#### Thick sailors

Complex sea battles, either against a foreign enemy or pirates are possible, but not that common. It's best to avoid battle until you have a crew large enough to man the cannons properly and form a boarding crew if necessary. It also



▲ Stormy weather — since my cargo and I ain't together. Life can be cruel sometimes. In HST you can spend a long time getting your cargo to a destination only to find that another supplier has got there before you.



helps if you pack more of a fhreat by having a larger boat complete with more cannons. Sadly upgrading your boat remains a dream for the first few 'years' of game time.

The ports around the world vary in size from outpost to city, with smaller ports generally not having as much to offer in the way of charts, supplies and labour compared to the larger settlements. However all ports feature a tavern, charthouse, bank and dock and it's in these buildings where you'll spend most of your time when not at sea.

Unsurprisingly the tavern is a good place to build up the morale of your crew by filling them with

of your crew by filling them with alcohol, but you'll also find plenty of new recruits, often with better skills than those currently employed. The bartender is a good source of gossip and it's wise to take note of his information regarding which goods are in demand, as well as current political allegiances. Enemy ports won't allow you to dock so you don't want to waste months travelling somewhere only to find they won't let you in. Beware though, because the bartender's information may not always be up

Some taverns also harbour people seeking passage. Charity cases are common and helping these people will boost your honour rating. Many of those seeking passage are spies, escaped prisoners or smugglers and while they might pay well up front, there's a considerable



Believe it or not sailors require more than just rum for a long journey so make sure you stock up with plenty of provisions or you'll have a mutiny on your hands.

risk in having them aboard after leaving the security of a port. Once you've begun to accumulate some wealth, various dealers will appear in the tavern peddling paintings and jewels amongst other treasures. These items are expensive but are essential to progress through the higher ranks of the merchant's guild, as well as increasing your nobility rating.

#### Building your own estate

When the serious money starts rolling in it's time to buy an estate. Three sizes are available and each has space for increasing amounts of treasure. Estates are another good way of advancing your status in society. Buying a larger vessel or indeed changing it to a warship also becomes



▲ It's best to wait until you enough men to man the cannons and form a boarding crew before you enter into battle.



A Most of the main game options are accessed from the cabin while



A Pick up the local gossip from the bartender. It's not always up to date though so don't believe everybing he says.

possible at this stage of the game. Once you have this much money it's a good idea to pay a visit to a bank and invest some of your wealth in a bank account. As journeys can take take months a tidy sum will have accrued by the time you return. And should your boat be sunk while out at sea you won't have lost everything and will hopefully have enough cash invested to start over again.

Before commencing a journey visit the charthouse to purchase trade maps, as well as to hire a helmsman to take charge of the more difficult aspects of sailing. The market also needs to be visited in order to stock up on goods to trade. This is where the main skill in playing *High Seas Trader* comes in. The trick is to buy the goods cheap and sell them for a vast profit.

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Sadly it's not that easy and the ports where you can sell goods for just such a profit tend to be a long way from where you are situated. In turn this requires more food and drink as well as replacement parts as your ship invariably suffers wear and tear on long journeys. All this will severely eat profit so it's a question of balancing profit with distance.

Keeping an eye out for surges in demand is a sure fire way of making a quick buck but the problem here is getting anywhere fast enough to capitalise on it. This is the 17th century remember and unfortunately ships aren't exactly the quickest method of transport ever devised. Quite often you reach a destination with a full cargo only to find that the demand has just been satisfied by another trader and consequently the profit margin will be down. As a rule arms and opium are the

most profitable goods but if a port comes under siege or a country is at war, then basic essentials like grain can increase in value tremendously. High Seas Trader makes you realise the scale of man's achievements. Having to brave the fierce jour-

ney round Cape Horn, where the crew continually come perilously close to mutiny makes you realise how fortunate ships are today to be able to use the Suez Canal for instance.

#### Conclusion

High Seas Trader is a fine strategy game that relies on its engrossing content and theme rather than audiovisual thrills. And a good job too because the graphics and the sound in particular are very average and purely functional. The game takes a long while to get into though and I imagine this will put a lot of people off, as will the occasionally unresponsive controls. Watching the boat travel from port to port on the course setting screen also gets boring, particularly on journeys with a lot of waypoints but maybe this is supposed to give an idea of how large the world is. It would have been better if travel between ports was instantaneous.

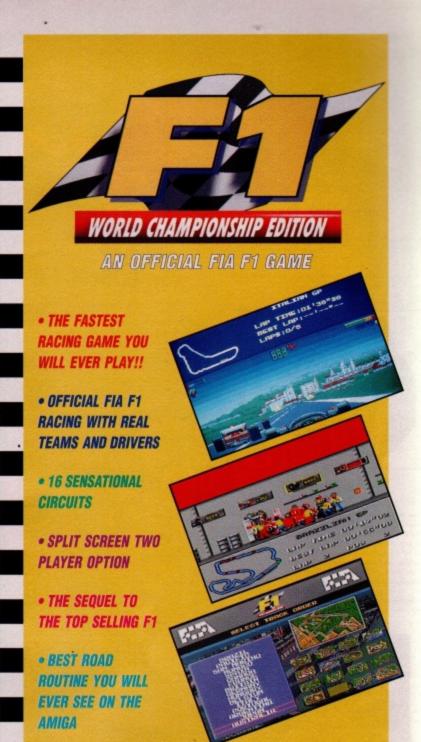
I don't want to dwell on the negative points though, because High Seas Trader has plenty to offer. Studying the markets for trends and then making a killing is vastly satisfying as is watching an enemy boat sink beneath the waves.

Although slow moving at times High Seas Trader is surprisingly action packed for a simulation and will probably appeal most to those who like busy simulations such as Dune 2. And that's no bad thing.

**Rik Skews** 

#### HIGH SEAS TRADER £34.99

_		
		workbench version3.0+ number of disks4 RAM2Mb+ hard disk installableyes
ı	A600	graphics72%
	A1288	sound
	A1500	playability80%
ı	A2000	OVERALL
	A3000	Rewarding trading sim but



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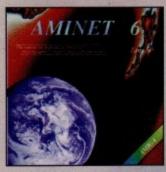




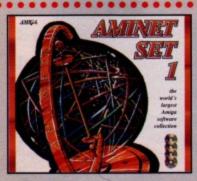
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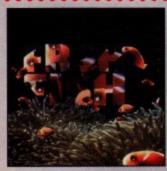
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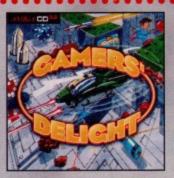
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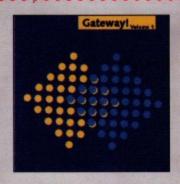
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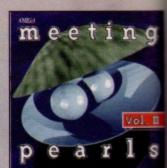
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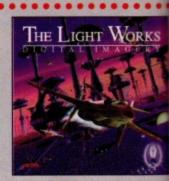
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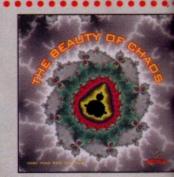


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# Tower of Souls

■ Price: £29.99 ■ Publisher: Black Legend © 01438 840004

Shiny swords, a dash of sorcery and a thoroughly nasty dragon.
Hmm, wonder what type of game this is eh?

n the land of Chaybore things had been sweeter than the smell of fresh flowers dancing happily in the spring breeze. I say had, because the crystals which protected the people of Chaybore have been taken by Baalhathrok – an evil demon.

Using the crystals as a focus for his power, Baalhathrok opened a portal to his own dimension and built a fortress. The citizens of Chaybore began to struggle for survival as the fortress' pumps sucked the goodness from the land. Things weren't looking good then and the people of Chaybore



▲ Moving the sliding bar highlighted by the arrow changes Treeac from being more warrior to wizard like.



▲ Use the alchemy screen to mix ingredients discovered on the quest and create new spells.



Opening a door usually requires a nearby key or switch to be discovered. You can try picking it if you can't get it open however.

could see no hope for the future. They hadn't counted on Treeac however. Found by a hill farmer one night, the baby Treeac was the future saviour of Chaybore, as foreseen by Maylor, the prophet.

Enough, enough! The plot is the standard RPG fare then and you can probably guess the rest of the story, even if you don't torture yourself by reading through page after page of the seemingly never ending intro. So as Treeac it's

down to you to both destroy the life sucking pumps in Baalhathrok's fortress (with the magic sword given to Treeac by the hill farmer), as well as finding and returning the missing crystals of Chaybore. Treeac can be played as either a out and out wizard or warrior, or more commonly a mixture of the two. Mixing the skills is a simple matter of moving sliding bars one way or t'other, as in Gremlin Interactive's Legacy of Sorasil for instance. Seven levels and a total of 125 map areas must be traversed, but the viewpoint is isometric rather than first person as in the majority of RPGs. This gives the game

a similar look and feel to the Heimdall series, but although good the graphics aren't in the same league as Core Design's classics.

The seven crystals must be collected in order and once this is done Treeac can enter Baalhathrok's lair and finish off the demon once and for all. As well as the magic sword there are 32 different spells available, each of which has five strengths and these can be cast at one of three levels. At the lowest level a spell can only be cast within an area in reach while at the highest level everything that covers even a distant area will be hit. An alchemy screen allows herbs, fungi and the like collected during Treeac's travels to be mixed together to help create the full range of spells available.

#### Choose your weapons

Combat weapons can be found, some of which are much stronger than others, and with all the usual cronies which inhabit these mystical lands, thankfully armour can be found lying around too. Find and search some of the many hidden rooms if you want to discover the best equipment on offer in the game. Other than the numerous enemies, puzzles and locked doors do their best to slow you



A Ooze spills out in the lower areas. Slow down its

down. Some puzzles are very brain draining, but a rather nifty lockpicking feature makes battling your way past any lock gratifying.

#### At the end of the day

As RPGs go Tower of Souls is easy to get to grips with. The control system deserves special praise. No longer do you have to click on a grid or direction icon to move. Strolling around the play area is simply a case of moving the mouse to wherever you want Treeac to move to. Place the cursor over Treeac and he'll stop. Combat is initiated by moving the cursor over the character you wish to fight and clicking on the left mouse button. Other controls are handled by clicking on the right mouse button and moving the hand cursor to the icons displayed across the bottom of the screen.

Sadly the gameplay is not so praiseworthy, but this is more of a reflection on a tired genre rather than the game itself. Even so fighting is a rather hack and slash affair, with not enough of the strategy or turn based action found in the majority of RPGs, while the puzzles are the bland 'the route's blocked so find the hidden doorway' variety. The isometric display can also prove confusing at times. Despite some novel ideas like the control system and the alchemy screens Tower of Souls feels lacklustre. If you're a D&D fiend then you'll probably get a few week's fun out of this but if not take Celine Dion's advice and 'think twice' before purchasing. Ho ho.

Rik Skews

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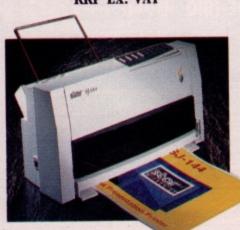
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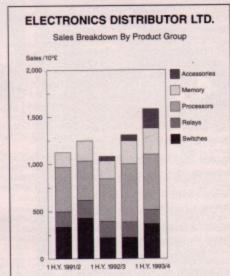


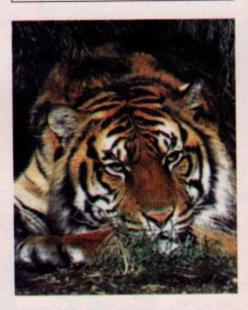
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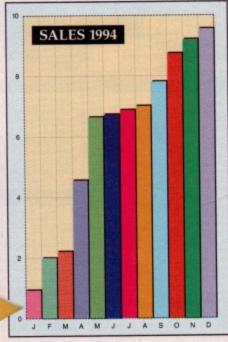
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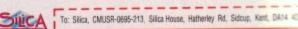
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## Soccer Superstars

▲ Nice flag waving effect pity about the game.

■ Price: £29.99 ■ Publisher: Flair © 01661 860 260

lair software grace us with yet another footy game that attempts the Herculean task of matching the standards set by Sensi Soccer. Can Soccer Superstars even make a mark on Sensi's seemingly impenetrable shell?

The quick answer is no. The long answer is that this game is so mind numbingly bad that it should be sent to fester in the bottomless pits of hell for all eternity.

Soccer Superstars is an arcade football game that takes the 'grandstand view' perspective. It starts all off rather poorly

with a C64 style Martin Galway rip off tune, which becomes more unpleasant to the eardrums than the Eurovision Song Contest played over the top of Phil Collins' "Another day in Paradise".

Before you even pick your team, you have to choose what formation you want to play in. You stick with the same formation throughout the entire season as the select option is only available on the main menu. Playing an entire season with the same players and formation is pretty sad. There is supposed to be a mythical management menu but I for one couldn't find it.

The game itself is, in my

opinion, the worst footy sim ever on the Amiga. For example, games like *Manchester United – The Double* are fun because of their neatly sized sprites and overall playability. This game has huge sprites and has almost no game-play options at all.

Also, the players look, run and play about as well as Mr Bean. They're sluggish, unresponsive and act as if they've never seen a football in their lives. Most football games have some degree of intelligent passing, but all you can do here is kick the ball in a straight line.

When chasing the player with the ball, it would be logical for the



▲ The ecstatic team leap for joy telepathically.

computer to select the player
nearest to the action, instead
control seems to switch between
members of the team almost at
random. As you can imagine,
stringing together a fluid set of
moves is near impossible. With
so many other decent footy
games to choose from, I can't

recommend this to anyone. ■ SLW

**22**%

## Exile A1200

■ Price: £29.99 ■ Publisher: Audiogenic © 0181 424 2244

riginally released some five years ago, Exile is now regarded as something of a classic. I really dread going back to these forgotten gems, as more often than not they end up looking severely dated and offer nothing but disappointment.

Thankfully Exile A1200 has been dressed in a shiny new AGA coat so it doesn't disappoint in the presentation stakes.



Shiny new graphics await in Exile A1200 h the classic gameplay remains the same.

More importantly the gameplay still stands up, despite remaining largely unchanged. It's an adventure game which casts yourself as the jetpack clad adventuring hero flying around one level. That's right, just the one, but don't worry because this level covers an area the Roman Empire would have been proud of. It's made more manageable by a handy teleport system which allows you to revisit places already explored, and the ability to save to RAM or disk whenever desired. Which is handy if you're about to go into a tricky spot.

The plot is the usual nonsense about rescuing a group of soldiers captured by yet another crazed space psychopath. This translates into gameplay which combines arcade style blasting with *Dizzy* style 'pick one object

up, drop it off elsewhere' puzzles that were so common in late 80s arcade puzzlers.

To succeed you're going to need to get the hang of that jet-pack. Thankfully it has an unlimited fuel supply, but is very responsive and no doubt you'll spend the first few games trying not to smack your head into a wall. Actually that's a lie because doing just that is great fun! Rather unusually for this style of game it's nigh on impossible to die thanks to a life line which quickly regenerates and because there's no time limit in which to complete the game.

Those of you who prefer nail biting blasting action might be a little disappointed as it's easy to find a quiet spot and let your health regenerate.

Playing Exile is a breath of



▲ Most puzzles are solved by finding and using an object from elsewhere in the level.

fresh air. This is a game that relies on logical puzzles and atmosphere rather than the hyped up mega tension of modern arcade games, or the obscurity of recent puzzlers.

I can't see it appealing to newer gamers, but crumblies like myself who long for the old style of game would do well to fasten their

seatbelts and take a ride. **Rik Skews** 







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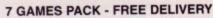
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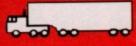
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🛮 Price: £25.99 🖿 Publisher: Flair © 01661 860 260

ense, nervous headache? Yes. You must have just finished playing Whizz - Flair's latest isometric view platformer.

Let me explain. At first glance Whizz has all the makings of a great platform game. The graphics are excellent, the levels are all very dreamlike and look like they could have stepped off the pages of a Lewis Caroll novel. Indeed Whizz himself could justifiably take part in an ID parade for the rabbit in Alice in Wonderland.

However, after quite a few frustrating bouts of trying beat the clock, wrestle with



est that won't open, perhaps I need a key? (See top right).

the controls and having to start from the beginning of the game to wish you'd never set eyes on the damn thing.

It's a shame really. Whizz, a cute lovable bunny wabbit, has the evil Ratty hot on his tail. So he's off running scared through the levels trying to escape the evil rodent. Getting from one end of a level to another before you run out of time or energy can be a tricky business. There are puzzles to solve, creatures to avoid, rockets to set off (four for an extra life), flags, gems and various pickups to collect.



Tread carefully over the barrels to get to the gate before it shuts.



every time you slip up, you begin how to get to over to it.

However, once you've learned the quickest route through each level it's just a matter of remembering it and playing it through. But there is no password system, so no matter how far you get through the game you have to plough through it all again. This can be very annoying. The awkward control system adds even more to the general feeling of frustration leaving you without the energy or the will to play the game through.

This is unfortunate as Whizz could have been a decent game. The graphics are great and the sound is OK. But the annoving control system and the need to return back to the start every time has prevented it from getting a much

higher mark.

Lisa Collins

## J = C = enemy unknown

■ Price: £29.99 ■ Publisher: Microprose © 01454 326 532

hat? Hasn't UFO been kicking around for quite a while now? Yes it has but before now only A1200 and A4000 owners had the privilege of enjoying this high-scoring, isometric view action/strategy game. Now Amiga owners everywhere can head up a team of brave warriors, the XCom, whose mission is to wipe out all the evil nasty alien scum trying to take over the planet.

Starting off with one base, some weaponry and an eight-man crew you eventually build up a global network of bases,



where you can hire more men, research and develop bigger and better weaponry and generally get yourself well prepared for a bit of one-on-one combat with the green

slimey ones (we all know aliens are green, don't we?)

Combat takes two forms: air combat and ground battle. Air combat is the initial form of contact with the enemy. Once you've successfully managed to make the UFO crash over land, not water, you can then send your team in to investigate the wreckage. Checking out the debris leads into ground combat, which is a chess like scenario where you move your men strategically and then wait while your opponent does likewise.

The turn taking system can be irritating because the enemy takes longer to make each move as the game goes on. This was one of the criticisms levelled at the earlier





▲ After each mission you get a rundown on your performance. I didn't do very well here.

game and this isn't any different. Also, in this version the graphics are a bit blocky in places and the amount of disk swopping and waiting time can get a bit tedious.

Those niggles aside, UFO is still a great game, so if you fancied the original version, but didn't have an AGA Amiga, now's your chance.

If you've never played UFO but would like an action/strategy game, like Laser Squad or Sabre Team, that will keep you engrossed for hours

on end, then UFO is well worth a look.

**Lisa Collins** 

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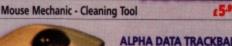
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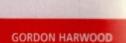
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## Syndicate

■ Price: £34.99 ■ Publisher: Mindscape ©0144 246333

t's about time too. Syndicate has been available on standard Amigas for nearly two years now; so long that we had actually forgotten that there was no CD32 version. However, Bullfrog's omission came as a welcome break from routine here in the office, because sometimes, when a game is re-released, it creates more interest than some of the new games we have in. And so we had to lock it away, just in case it went missing before it could be reviewed.

For CD32 owners who haven't seen this classic on other machines, let me give you a brief run through of what it's all about. Basically you are in charge of a group of assassins who operate on behalf of a 'company' or syndicate, a post apocalyptic semi-criminal business giant that seeks to run the world



▲ The intro screens to syndicate are well animated and create atmosphere.

with the aid of advertising and coercion. There are up to four members in your team of cyborgs, and you can equip them with a variety of weapons, a scanner and numerous other miscellaneous items like ID cards. The missions are all about either assassination or kidnapping, or both, and it doesn't really matter who gets in your way, as long as you achieve corporate objectives.

You enter each mission via a world map which shows the domination of your corporation, a mission briefing screen and an equipping screen. The equipping screen allows you to buy weapons and other devices, research new technology and

modify your cyborgs with faster and stronger limbs, armour plated chest-pieces etc. The mission screen itself is divided in two. On the right-hand side is the playing screen which takes up about 70% of the total

area. In it you see an isometric section of the city or village you are in and your agents, who are thench-coated and very suspicious looking. To the right there is a scanner map, four boxes, each containing the stats on your troops and a weapon/icon bar where you choose what to use and fire.

The interface is point and click, and Bullfrog have intelligently included a mouse routine for port two. You'll still need your joypad plugged in to port one though, to evacuate once you've completed a mission. Thing is

though, if you don't have a mouse and don't want one you'll never



▲ Your controller will give you a car which you are politely asked to get back in one piece. If it's destroyed you can always nick another!

get the most out of *Syndicate* it's pretty difficult to play and enjoy just with the joypad.

Although the graphics are a tad grainy and glitchy through either TV or monitor (you really need an RGB output to make them acceptable), it's still clear what's going on once you've figured out what everyone looks like. Despite this, it's still one of my fave games, combining strategy with shoot 'em up action. Great.

Alan Dykes



### CD32 Gamer Gold

Price: £29.99 Publisher: Grandslam ©0181 680 7044 Nick Faldo Championship Golf Bump N Burn and Jetstrike

h yes, Spring is here, Commodore has been saved and all's right with the world. Hold on a second, you're not smiling. Bit of a pessimist are you? Too frightened to rush out and buy any software in

case it's all been a dream. Well, here's an idea, ease yourself gently back into the swing of buying software and have a look at this compilation from Grandslam. You couldn't get a more diverse choice of software: it's got a racing game (Bump N Burn), a golf game (Nick

5

▲ You never know when you're going to get carried away in Grandslam's racing game Bump N Burn.

Faldo Championship Golf) and an aircraft simulator (Jetstrike).

Three games for less than a tenner each can't be all bad. Let's take a closer look. *Nick Faldo*, although not as good as PGA, is a reasonably OK golf game which despite slowish loading times is quite well designed with the novice golfer in mind. The CD32 version scored 83%, CU May '94.

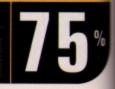
Bump N Burn is a competent racing game which received a good score, 85%, in Jan 95. Although not really offering anything new it does have enough levels and tracks to keep you busy for a few hours and the chance to upgrade your car at the local shop.

Finally, Jetstrike is the lowest

scoring of the bunch having only received 59% in October '94. It's a slightly older game and is a side on view scrolling flight sim. The graphics are not really up to much and the rotational control method can be a bit hard to get to grips with.

So what you have are two reasonably good games and one that's not so good crammed onto one disk. So do you keep your money and buy one really good game that will last or do you go for a mixed bag of reasonable games at a low cost?

The choice is yours. ■
Lisa
Collins





▲ Try your hand at the rotational control method in this side-on scrolling shoot em up — Jetstrike.

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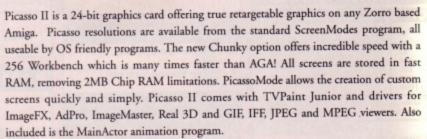


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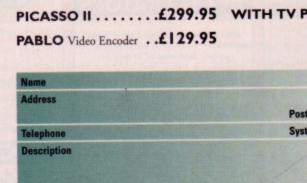
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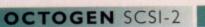
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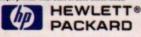
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## Pinbal usion



#### Price: £29.99 ■ Publisher: 21st Century Entertainment © 01235 832939

f, as 21st Century claim, Pinball Illusions is their last pinball game on Amiga or CD32 then they'll have exited on a very good note, indeed.

Easily the most polished of the Dreams and Fantasies series it brings us three tables, top graphics and a couple of spanking good tunes, even though they do sound like those Barclays Bank advertisements on telly.

The most innovative thing about this version is its high resolution full screen mode, where about 70% of the table is shown with minimum reduction in graphic detail. This

allows very effective multi-ball play and can be toggled on or off easily by pressing right on the direction pad.

The controls make very good use of the CD32's joypad buttons: pause starts the game, green shoots the ball, red shakes the table vertically, the shoulder buttons shake it horizontally, yellow guits the table while left direction pad and the blue button control left and right paddles respectively.

The three tables are called Law N' Justice, Babewatch and Extreme Sports and each of them has three flippers.

Law N' Justice is based on police chases and jailbreaks, Babewatch involves attracting babes by showing off your surfing skills, lifting weights and also has a gambling casino, while the Dangerous Sports table contains Point Break style dudes, bungy jumping and the like.

The tables are very realistic, the scrolling ultra smooth and the timing of the lights and bumper collisions is just right. Although the music is good the sound effects still lack atmosphere; this is something that hasn't changed in the CD version.

When it comes down to it though this game could have been made for the CD32. It works brilliant-

ly on it and although there are those who disagree with me I'm



Hot ball popping action with Pinball Illusion

convinced that its joypad control is almost perfect, much better than the Amiga's keyboard control. That, allied to the immediacy of the CD format makes it a winner. Better than the Amiga version. Just.

**Alan Dykes** 



## )eedball 2



#### Price: £14.99 Publisher: Warner Interactive © 0171 391 4300

id this game miss the last bus home too? Like Syndicate Speedball 2 has been around for yonks, longer than Syndicate - much longer. The cracking combination of American Football and Rollerball (70s movie buffs and James Caan admirers will know what I'm talking about) made the

Bitmaps' football alternative one of the most playable and enjoyable arcade games of the 90s. Imitators like Brutal Sports Football just couldn't hope to match it.

A one or two player game, there are nine men on a team, and each can be modified in fitness and armour terms. Play takes place on a massive metal pitch, surrounded by walls with pick-up

> icons, floor distance markers and bonus slots. The basic object of the game is to score goals by throwing a golden metal ball at, you've guessed it, the goal. Bonus points can also be scored by hitting various wall-mounted targets. The only way to stop the opposing team from doing this is to tackle its

members, or thump them, or barge them, or kick them.

You can play a knockout game in a league or cup, or challenge a human opponent to the best of one three or five games. In league or cup games against the computer the opposing teams get progressively more difficult. Before entering each game a training screen appears where you can change and upgrade your team's armour, speed and and fitness.

The CD32 version has much improved graphics. The amount of detail and the colours for each team are a lot clearer than they were on the original Amiga version. Thus it's easier to see who is on your team and who the opposing

player is. Loading still takes a while and the frame rate hasn't been increased but it's still very playable.



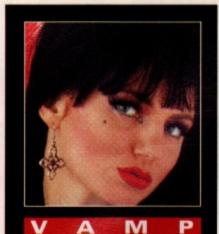
get your player all kitted out with the latest

Despite its age this is still a classic game, in the same way as Sensi Soccer is; a true piece of Bitmap genius. It was worth the wait. In fact if you've got the Amiga version it's probably still worth buying at £14.99 for the improved graphics and joypad control. You'll never regret spending money on a game as smooth and playable as this. **Alan Dykes** 



Yes. It's a goal. Watch the triumphant scorer do a little shimivery time he gets a goal.

G/DTP



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ANOTHER, VAMPYRA
IS BACK TO NIBBLE
YOUR EARLOBES
AND WHISPER
WORDS OF ENCOURAGEMENT IN

YOUR EAR.

#### Universe and Hook

My brother and I are really stuck on *Universe*. We did the first part easily and ended up in Gavric. We've talked to the robot, been shot at by the lasers, talked to the lady using the door panel, found the car behind the building, but still don't know what to do. We also have a question about *Hook*. Where do you find the eggs which you need to give to the lost boys to get some elastic?

Aron and Liam, whereabouts unknown.

In Universe, you must first use the arm computer on the car to make it safe to enter. Once inside you must insert the keycard into the slot on the left of the control panel. If you now use the console you will be asked for a code. At this point naughty software pirates come to a halt because the code that's needed is found in the instruction manual. Have I just ruined your day?

To get the eggs you seek in Hook, you must travel through the workshop and use the fitness equipment three times. Head for the Avenger and pick up the fishing net. Go to the Four Seasons and use the conch

## Adventure Helpline

shell. If you're quick you can grab the eggs and give them to the guy in the workshop to get the elastic. Personally I've solved the problem of missing elastic by not wearing any, but then that's another story.

#### Ishar 3

In the superb game Ishar 3 I managed to find the Racoonman. I took the scroll he had and gave it to the wizard at the Timegate who told me to find the ingredients for a potion. The ingredients are Salamander Oil, Dried Mistletoe, Rat Brain and Kelonia Powder. I have found everything apart from the Kelonia Powder. Where do I find this powder?

P Beckett, Tyne and Wear.
Well it sounds to me as if you've got
the makings of a first class witch's
brew there, but go easy on the dried
mistletoe or else you will ruin the
taste of the rat brain, yeuch. There is
an inn called the Kelonia Tasters
which is found along the southern
ramparts of Rich Town. If you pop
inside and have a listen you'll be
able to pick up a pinch of the good
stuff. Bon Appetit.

#### Simon the Sorcerer

I can get to where you give the alien thing the stew, but I can't find the goblin's shopping list. Please can you help?

Robert Barter, Exeter

The 'alien thing' as you call it is the Gollum! Good heavens boy, if you were to take time out from watching Playschool you might be able to do a bit of reading and discover the books of the mighty author Tolkien. I must warn you however that his books are hobbit forming, so do take care. If you give the Gollum the stew he'll give you his fishing rod. Use the rod in the river and you'll get the magic ring. The elusive shopping list that you are looking for has been left

under a stone just outside the entrance to the Goblin village. From the entrance of the dwarf mine, exit by the upper left path and you'll arrive outside of a pair of doors. Pick up all the stones you can and you'll find the list.

#### Legend of Kyrandia

Pray help an old man out (Certainly. Which way did you come in? – Vampyra) I'm stuck at the very beginning of *Legend of Kyrandia*. I think I have all of the relevant pieces I need, but how do I get across the river in the cave? I have given the old man the saw, but he saws away at the tree to no avail. Please help.

A Caton, Northampton.

I do like helping out old men. They are much nicer than young men, because they are more appreciative and they give you breakfast in the morning! I think your problem is caused by the fact that you are standing around watching the guy working instead of doing all of the things that must first be completed at your side of the bridge. Have you got the note from the workbench and the apple from inside the purple pot? Take the note and show it to Bryn at the temple. Have you picked up a teardrop from the pool of Sorrow and used it to heal the Willow Tree? Have you repaired the altar using the purple marble which Merith has? Finally you must take a purple rose to Bryn who will turn it into a silver rose (which is a smart trick if you can do it with pennies) and then place it on the repaired altar. I suspect you haven't been too smart up to now, so I want you to concentrate from here on or you'll have me up all night.

#### Police Quest 3

On day four of Police Quest 3, Pat Morales tells me that we have to go to 300W Rose. I drive there on



▲ Ishar 3: a mixture of many ingredients

the map, but when I stop he says there is no reason to get out here. Wayne Thorose, Edgware.

You didn't say what else you had done on day four. To start with you must pick up the tracker device from the third floor. Take the chart from the glove compartment in the black and white car, then drive to court in a white car. Provided you filled in Form 900 correctly while on patrol you'll win the case.

Go to the mall again and when Morales leaves the car pick up the key. Go to Zak's and get a copy made. Get back to the car and replace the original key. Now you will be told to go to 300 West Rose. Once you arrive Morales should take photographs and you should be able to get out and open the boot of the car and take your equipment from the case.

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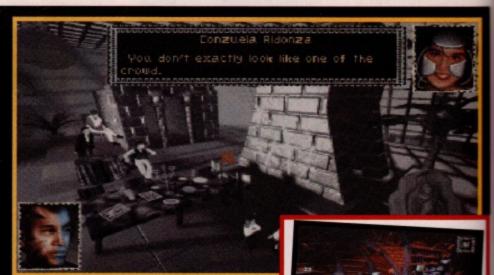


#### The Metropolitan Museum of Art



Now it's time to go to the Metropolitan Museum of Art via the map screen as usual. Once there talk to Montgomery Taylor and answer no and then yes. Now go to Vince's Munition Emporium where you should buy the jury rig tools and instapigment. Switch back

to the map and select Electric Anarchy. At Electric Anarchy talk to Phraktle K.Oss and answer yes. Go to Central Park and rest until pm. Now go to the second room and talk to Mother Mary. Return to the first room and talk to Kimba West, then talk to Sanders Tomalin twice. Use the Samurai soul box and go to St Pats. Now talk to Mother Mary, Brother Complicatus and finally Mother Mary again.



## Bloodnet

Hello again tips fans and welcome to the first instalment of CU Amiga Magazine's comprehensive solution to Gametek's Bloodnet, a bitingly great adventure game.



#### The Hellfire Club

Go to the Hellfire club, talk to George Yatchisin and then put the TTClearance Badge on Ransom Stark before finally going to the Cafe Voltaire. Talk to Lenora Major and answer yes. Now go to



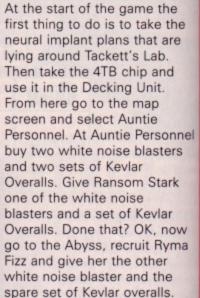
the second room and talk to Oscar Nandez. Go to the Huston Matrix Rovers, get the patch cord and talk to Larry Owen. Enter the Net (while you're journeying through Cyberspace a handy tip is to always try and talk to any data angel

that you should meet there as most of them generally have some useful snippet of info). Find a 'FATS' and enter the code 'major'. Talk to Lenora Major then exit the Net. Go to Autonomy Dogs and talk to Sabaccatus St. Aubens.

#### **Electric Anarchy**

Go to Lazlo Green, search and get the gas mask. Give the gas mask to Ransom Stark. Go to the Hellfire Club and enter the room on the right. Go to the Inner Sanctum and get all the blood bags. From now on if your bloodlust reaches 95% use a bloodbag to reduce the rating. Talk to Gwendolyn Finch and then go to the Electric Anarchy. Here you should let Ransom Stark talk to Phracktle K. Oss, then to Phree Thought where you should answer yes. Talk to Chuck and answer

#### Tackett's Lab



yes, then talk to Nal Hillstick and last but not least, Garrick Fizz.



#### Transtechnicals HQ

Return to the map and go to the Transtechnicals HQ. Enter the elevator and go to Emily Esaki. Search, get the lapel pin on the far right of the room and once collected put it on Ryma Fizz. Enter the elevator, go to Bill Dougan and talk to him. Enter the elevator and go to security. Kill Security Chief Payne by shooting him, not by taking a bite!



Use the TTsecurity cloak, search and get everything. Use Tackett's essence and read the Cyber crackdown list. Now go to the Kafka Conspiracy, talk to Coover Tristan and then talk to Chrysalis and answer yes.

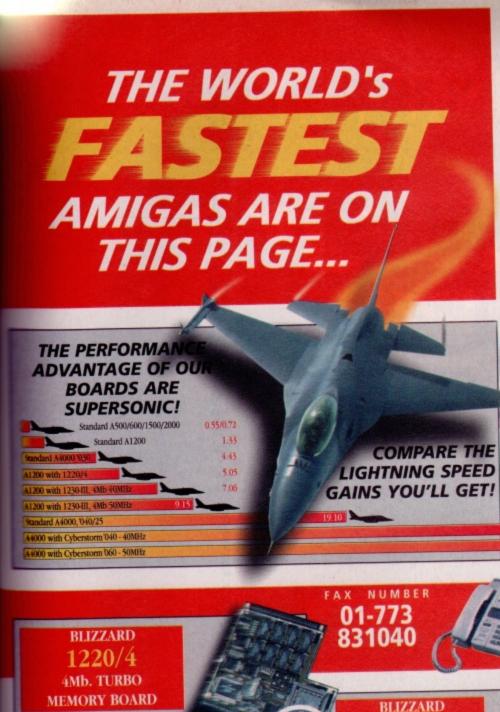
#### The Icon Robbers Studio

Go to the Icon Robbers Studio. Here you should use the sommavapor with Ransom Stark before initiating a search and then getting everything. Go to the Kafka Conspiracy and talk to Coover Tristan, once more, and again answer yes. Go to Strongarb Tatic via the map screen. Now buy both a diagnostic unit and a lockpick casing. Go to the juryrig



screen and juryrig an electronic lockpick. Now it's time to go back to the map screen. Head for the Hellfire Club. At the Hellfire Club enter the third room. And... well, you'll just have to wait until next month when we conclude this adventure. 

\*\*Rik Skews\*\*



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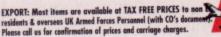
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**LEANING OVER THE EDGE** 



Hmmm, I've got a strange warm feeling as I write this, for this is not only my 12th issue of CU Amiga Magazine but, sadly, also my last. From the July issue I'll be working on

EMAP's PC magazine, PC Review. The reasons for this are many, but boil down to something to do with large amounts of cash being waved in my general direction.

Rest assured however that CU Amiga Magazine will be in safe hands. Tony Horgan will take over the mantle of Technical Overlord of everything Amiga, and I'll still be making the odd appearance, and of course the usual team of writers will still be testing and evaluating products to the demanding standards you've come to expect from us.

I wanted to go out with a bit of a bang, and what an atomically earth shattering issue to have as my swansong.

I couldn't go without making sure the Commodore situation was sorted once and for all so I had a quick word with the liquidators and told them to get their act together (no really). You can read about the results of this in the news pages. Having done this I set about getting the very latest products in for review. These you'll find tortured and tested over the next few pages.

There's two super fast new A1200 accelerators, the full indepth review of OctaMED 6, a sneak preview of what could well be the hottest video product of the year and a look at a tower upgrade for A4000s.

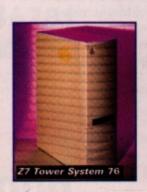
So with a fond farewell I bid goodbye to you as Technical Editor, and pass the sacred reigns over to Tony Horgan for the next issue.

# BAIDUS

What an issue we've got for you this month! There's a head to head comparison of the two fastest A1200 accelerators ever, a full review of the new OctaMED 6, professional video effects from OpalVision DVE, CD-ROMs, the new Tower System and all the PD software you'd ever need.

OpalVision DVE	70
If you dream about state-of-the-art digital video effects, then join Nil	c Lines as
he previews the long awaited OpalVision DVE upgrade.	

- Octamed 6 ....... It's here, it's new and it's amazing. Tony Horgan tries out the latest version of the Amiga's most popular music program.
- Want to turn your A4000 or A1200 into a towering monster of a machine? John Kennedy already has, with Ramiga's Z7 Tower System.
- Accelerator Head to Head . . . . . . . 80 Two super-fast 50MHz A1200 accelerators go head to head: can the new Apollo beat the latest in the Blizzard A1230 series?
- Gunning for the market previously dominated by Directory Opus, InfoNexus raises the stakes with a host of new user interface features.
- CD-ROM Round-up . . . . . . . . . . . . . 85 Andy Leaning spins the very latest CDs to find all that's best in the shiny, spinny world of compact discs.
- Join Tony Horgan as he explores a land of swirly, wooshy things that inhabit the place and time known only as the 'PD Scene'. And there are some games too.
- PD Utilities . . . . . . . . . . . . . . . . . . . 90 All of the best disks from the more serious end of the public domain scene, as reviewed by David Cassidy.
  - Reader Survey . . . . . . . . . . . . . . . . . 95 It's that time of year again. Let us know what you really think of the magazine by filling in the 1995 Reader Survey - you might even win a free subscription.





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# OpalVision DVE

■ Due for release: TBA ■ Publisher: White knight Technology © 01992 714 539

It's been a long time coming but the revolutionary OpalVision, Digital Video Effects upgrade, is nearly here. CU Amiga Magazine takes a sneak peek.

palVision appeared around 1992 and was one of the first affordable 24-bit graphic boards for the Amiga. At the time, it came with the superlative *OpalPaint* software and "incredible things" such as genlocking, digital effects and chroma keyers were promised in the form of modular upgrades to the basic Opal Vision card.

However, 1993 rolled by with promises of 'just a month or so' for the add-ons. Some dealers even started selling OpalVision with vouchers for money off against the new modules. 1994 nearly passed too, until at the end of the year, two days before the World of Amiga show, a module finally turned up. CU Amiga Magazine took a sneak peek at this long awaited upgrade.

This first module is a Video Processing and Effects upgrade which enables you to play with moving pictures (video) by manipulating the signal, thus creating a variety of effects. You can create real time DVEs (Digital Video Effects – or fancy wipes between two sets of video sources to you and me).

For example, all the standard transitions such as wipes, blinds, blends and loads more are there, but you can now wrap one picture into a box and bounce it in any direction off the screen, cut it into a jigsaw with a shadow and explode the pieces off the screen – anything! You've probably seen the sort of thing done before on TV between programmes, or in trailers

#### **Nice configuration**

Where the OpalVision DVE really scores though is that all effects are completely configurable. The manual, however, was pretty vague about how to do this but it's possible with a little experimentation to change the effects to alter shadow depths, explosion paths, the shape of jigsaw cuts and more without too much trouble.

Animations can be used as wipes, too: preconfigured examples are where a swarm of kangaroos sweeps across the picture, leaving the replacement image where they've been, a flock of seagulls, leaves falling or even some sort of ape swinging across the picture. Very nice and very easy to do again! The interface bears a marked resemblance to LightWave, presumably to keep the video processing buffs with toasters happy. As such it's remarkably easy to use, any LightWave user will feel at home.

#### Through the keyhole

But it's not just all wipes and fades. It will also have sophisticated keying facilities.

Keying is the buzz word video buffs use for replacing some of one picture with part of another and the part to be replaced is decided by using a 'keying' component. With OpalVision you can either use the luma or chroma elements of a picture.

Luma keying means that everything above or below a certain intensity level is replaced with the other picture, chroma on the other hand replaces all parts of a picture depending upon a selected colours.

As well as keying, stencilling can be done with an alpha channel. The upshot of which means that three 'levels' of video can be used: a foreground, middle and background. Very clever.

In addition to these features there is a frame grabber that will allow individual frames from a moving source to be frozen and captured. These frames can be then mixed using the effects to create impressive digital trickery very quickly.

The biggest drawback of the card, as we saw it, is that it only has one moving video source. It means that only wipes between a still and live video can be done, but this can be got around by making use of the Video Suite rackmounted switcher, giving nine live inputs and five stereo audio channels to play with.

As it stands, the OpalVision upgrade is outrageously good as it produces excellent signals. When a couple of bug-ettes are ironed out and it is on general release, this will be a big boon for the Amiga.

Copies for general release are expected 'soon', although judging by past records 'soon' could mean anything from a couple of weeks to a year or so ... The message is if you've got an OpalVision, hold onto it because these things are coming and will be well worth having!

**Nik Lines** 



Here a standard OpalVision picture is wiped with a



Now the Lawnmower picture becomes the main image, with the woman picture moving off to the side



Now things get a little bit more exciting, the woman i wrapped around a cube ready to be bounced around.



Here she is in all her glory, bumping and bouncing around the screen. Notice how the background picture is moving as well!

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## OctaNED 6

■ Price: £26/35 ■ Developer: RBF ■ Software Supplier: Sea Soft © 01903 850378

The Amiga's favourite music sequencer reaches Version 6.

#### New to Version 6

- Enable/disable audio channels
- More than one command per note
- Custom font selection
- Aura and Toccata sampler support
- Custom screen selection
- Improved sample editor
- Save module as executable file
- Load and save MIDI files
- Improved sample editor
- 16-bit sample handling
- ARexx port
- The notation editor has been removed

What is OctaMED?

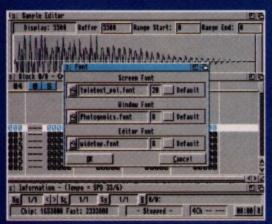
OctaMED is a music creation package. It began as a clone of the public domain program SoundTracker. Since then it has evolved into a very powerful music sequencer. It allows the sequencing of up to 64 tracks, four of which can be used by Amiga samples in standard mode, with the remaining tracks used for MIDI instruments and addon samplers such as Aura and Tocatta. The 'Octa' part of its name refers to the mode which allows the playback of eight tracks of Amiga samples (sound quality is reduced in this mode).

Unlike most sequencers, OctaMED uses a tracker-style system to record, edit and display its musical data in a series of vertically scrolling blocks. Notes and control commands such as pitch bend and volume are displayed as alphanumeric codes. This can make it difficult to understand at first, but does allow for very fast editing once the system is mastered. A powerful sampler and sample editor is included within the program, so you can grab and edit your own sounds as you compose, without having to use a separate piece of software. There's also an in-built synthetic sound editor, which lets you create simple instruments from scratch that use very little memory. have a confession to make. I'm an OctaMED addict. If I don't get a fix of it at least once a day, I'm a wreck (don't we know it – Ed). However, when Version 5 arrived, it didn't seem to offer enough in the way of new features to warrant a change over, so until now, I've stuck to Version 4 for my daily dose of audio therapy. The bottom line was that there was virtually no noise you could make with Version 5 that you couldn't make with 4. Now Version 6 is here, I've been converted.

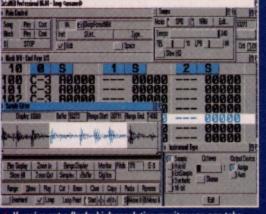
OctaMED 6 has always been an extremely powerful music tool, but now it's even better.

**Customised Windows** 

Now you can use up to three different fonts in the display, and use any screen mode you like. As the whole program works in a system of windows, this means you can customise the screen layout to suit your requirements. If you use a multisync monitor with an AGA Amiga, you can use a flicker free high resolution screen with plenty of windows arranged at your leisure. On the other hand, if you use a 1973 black and white portable TV, you can opt for a low resolution screen with big text.



▲ The font selector allows you to choose different fonts for various parts of the program — more useful than it sounds.



▲ If you've got a flashy high resolution monitor, you can take advantage of it with a customised screen layout.

Since Version 5, it's had a new front end that takes advantage of Workbench 2 and 3's system of menus and windows. This has the unfortunate side effect of making it incompatible with 1.3 Amigas, but then you'd be hard pushed to find a new program that was compatible with the 1.3 operating system.

The new features seem to have something for every type of OctaMED user. For those branching out into 12 and 16-bit sampling, there's support for the Aura and Toccata addons. The power users can now exercise complete control over the music with a virtually unlimited number of commands assigned to each note. The sample editor is now even more feature-packed than before, and for those who like to use a separate sampler, there's an option to disable the audio channels to help with multi-tasking. MIDI musicians can swap files to and from mainstream MIDI sequencers thanks to the MIDI file load and save options. Posers with Multisync monitors can customise the screen for maximum efficiency. Public Domain musicians can save their modules as executable files for easy playback and also to reduce the risk of being ripped off. There's even an ARexx port.

**Command Pages** 

Until now, OctaMED has allowed each note to be altered with a single command. Commands alter the way in which a note is played, such as volume changes and pitch slides for example. Now you can use up to 32767 commands at once, so you can combine changes in volume and pitch, arpeggio effects, sample offset values and more on the same line of a single track. This may not sound too exciting, but it opens up new and unique sound creation possibilities. For example, you could used the sample offset command to simulate a time-stretch effect (cue the same sample on each line with increasing sample offset values), while strobing the volume on and off, pitch-bending it at the same time.

This is possible thanks to the addition of multiple command pages. Each block can be assigned a number of command pages, which are copies of the original block that contain the note data, but have space for additional commands. When the block is played, its corresponding command pages are automatically played too.

#### **The Sample Editor**

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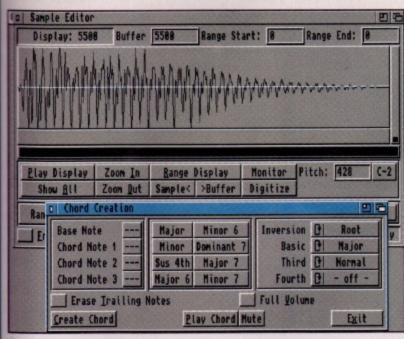
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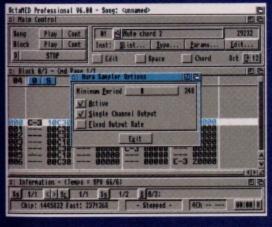


▲ Chords can easily be created in the sample editor. The original sample is repitched and mixed back onto itself to save tracks.

OctaMED's in-built sample editor has been overhauled to accommodate the new 16-bit compatibility. It can now load and save samples as IFF (8SVX), MUAD, AIFF, WAVE and Raw formats. This is especially useful for compatibility with other sampler systems.

12/16-bit sampling
As with Version 5.04, OctaMED 6 will

sample and play back through the Aura PCMCIA sampler. This takes out one of the Amiga's four internal voices while playing back through the Aura. The advantage of this is that Aura samples are output at a 12-bit bandwidth, rather than the Amiga's standard 8 bit resolution, and so benefit from improved sound quality. However, you can only play one Aura sample at a time, and if you don't have any Fast RAM or an accelerator, you won't be able to replay these samples at particularly high rates. The other option is to use the Toccata features. Toccata is a 16 bit sampling system for 'big box' Amigas, such as the A2000 and A4000. It records and plays back up to four 16 bit sample channels direct from hard disk.



▲ Options for the 12-bit Aura and 16-bit Toccata samplers give the chance to break away from 8-bit sound quality.

The WAVE loader gives you access to PC sound sample collections, such as the many CD-ROMs on the market. Another advantage is the ability to edit 16-bit samples. If you have a 16-bit sampler that has an inadequate editing system, you can load the sample into OctaMED, edit it, and save it back out for playback through your 16-bit system. Unfortunately though, the Amiga is unable to read disks from Akai samplers, so the transfer process in this case

would be rather more complicated.

There are also some new editing options. There's plenty of help for setting up loops, with automatic 'zero find' features for avoiding clicks, and lots of other little tools.

Other new editing features include a new input monitor, an 'over write' paste that replaces the current selection with the copy buffer, adjust Y offset, centralise, add workspace, tuning tone, display pitch as Hertz and more.

There was an automatic chord creator included in Version 5, and this has been expanded and improved upon. Now you can select certain chords by name (such as Major 6, Sus 4th), or define your own chords by entering each note. This repitches the sample to match the specified notes of the chord, and then mixes them into each other.

The result is a whole chord in a single sample, which is brilliant for saving valuable sample channels.

You can also zoom into the sample with a new slider on the right of the sample window. The sample editor is now very quick and easy to use and pretty powerful too!

#### Price and Availability

OctaMED 6 is only available through mail order. Registered users of OctaMED 5 can upgrade for £26. New users can obtain the program for £34.99. Send your order to the following address: Sea Soft, Unit 3, Martello Enterprise Centre, Courtwick Lane, Littlehampton, West Sussex BN17 7PA.

French and German users: a French language version is available from: France Festival Distribution (tel: 42761870); a German language version is available from ABF Computer (tel: 7152937904).

#### **MIDI Files**

OctaMED can now load and save standard MIDI files. OctaMED has long been able to sequence MIDI data and it does this very well, although it doesn't suit the working methods of many MIDI musicians. However, if you can use it for recording sample-based music, adding MIDI parts over the top is no trouble at all. The combination of up to 64 tracks of MIDI and the standard four channels of Amiga samples gives you plenty of scope for professional productions.

There are options for loading MIDI files which govern how much or little of the controller information you want converted, thus saving memory. You won't always get exact conversions, but there are options to tweak it to get it right.



▲ You want save options? You've got 'em!

#### Conclusion

OctaMED has grown up. It now comes with a full laser-printed manual, with online hypertext instructions too. There are enough configuration options and features for it to appeal to just about every type of musician, from the dabbler to the professional. Version 6 has made great strides in compatibility with other systems, thanks to the support of standard MIDI files, 16-bit and PC sample formats, and support for the Aura and Toccata samplers. It's time to upgrade and for those who have not yet experienced the power of OctaMED, there's never been a better time.

**Tony Horgan** 

#### OctaMED 6

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# 27 Tower System

Price: £429 Developer: Ramiga Supplier: Ramiga © 01690 770304

Expand your A4000 or A1200 to be a monster machine, capable of frightening small children and animals, with the Ramiga Z series.

he Amiga 4000 is many things. The ultimate in the Amiga computer range, the most expandable Amiga, the fastest Amiga, rare as hen's teeth and the subject of many a strange and exciting teenage dream not involving members of the opposite sex.

Even though when available it had a very high price tag and enjoyed flagship status, the A4000 also came in a lousy box. When it was first launched I heard a rumour the case was originally designed as a Commodore project to create the cheapest PC clone ever, and I can believe it. Little things, like the fact that the single 5.25" drive bay isn't actually deep enough to comfortably house a standard CD-ROM drive, come to light sooner rather than later. Rather sadly, the number of expansion slots – one of the main reasons to buy an A4000 – is limited to four.

All in all, for the machine

claimed to be the ultimate multimedia platform, there was some terrible cost cutting.

#### Looking up

There were signs that things were looking up. Before it all went horribly wrong for CBM, the mythical A4000 Tower was shown to a select few. This system addressed many of these faults (and added many exciting features).

Tower cases mean expansion: that's their job, and the Z7 is one big cookie. It's about 64cm tall, with a metal casing and plastic front panel. A hinged door on the front opens up to allow access to the disk bays and switches, whilst a smoked plastic panel allows the all important speed display and power/turbo/ drive access lights to be seen.

Internally, things have changed a lot. The A4000 consists of two circuit boards meeting at right angles. The daughterboard (into which Zorro cards are slotted) connects to centre of the main motherboard, and sits upright allowing four cards to be fitted, sitting parallel to the motherboard. Obviously this limits the number of cards to the height of the original case.

The Z7 system includes a brand new daughterboard which replaces the original and now sits parallel to the motherboard. This arrangement covers the motherboard memory area, so make sure the SIMMs are in place before fitting the card. However, it also means a lot more slots are available. In contrast to the native A4000, the Z7 has a total of seven Zorro III slots. The slots have a double life: five of them have matching ISA PC slots and two are Amiga video slots (the original A4000 had three PC slots, and one video slot). This means I can

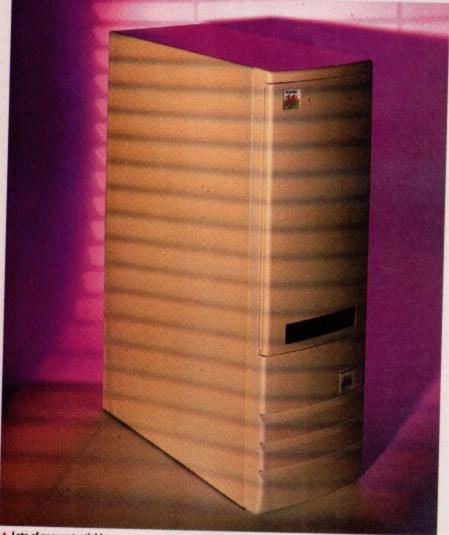
fit my GG2 bridgeboard card, a PC ethernet card, a PC parallel/serial, a PC internal modem card and still have room for as many graphics and SCSI cards as I'm likely to afford.

The number of drive bays has been increased by an order of magnitude, with six 5.25" bays and a 3.5" cradle which can carry three drives.

#### Installation

Set aside several hours for installing your Amiga. Armed with the best engagement present yet (an electric screwdriver) it took me most of a Saturday morning when I could have been watching cartoons to get everything sorted. A lot of this was down to the instructions referring to a slightly different case and the mysterious location of the supplied fan which had been bolted into the wrong place.

Rather than squeeze in all the wiring, I fitted the IDE drives in removable packs in the 5.25" bays, and mounted the SCSI 3.5" drive under the floppy in the 3.5" bay. The non-standard floppy drive size also left a gap in the front display, which I plugged with the smaller blanking panel from the original A4000 case. If you have two floppy drives you will have to



▲ Lots of pose potential here — stun people with the fact that this piece of PC style kit is an Amiga.

Prices A1200 Z5 System (including 200W Power Supply)	£429
A4000 Z7 System	£429
Options: PC Keyboard for Z5	£19.95
PCMCIA Adaptor for Z5 (use PCMCIA cards in Z5 case)	£29.95
2.5" -> 3.5" Hard drive cable (use 3.5" drives in Z5)	£15
200W PSU	£64.95

couse at least one in a 5.25" bay crobably both thanks to the iniga cables).

Anyone considering the Z7 would probably also be thinking bout (or already have) a procesfor accelerator. Happily there is imple room in the case for a WarpEngine, although this is probably due more to luck than sign as there is only just mough space between the Warp's SIMMs and the 3.5" drive The CyberStorm 060 system iso fits happily, but if you plan on adding a SCSI card to OvberStorm, you will have to emove the 3.5" bay totally and -mount the drives in one of the 25" bays.

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until a few years ago, in my saivete, I thought the LED displays on PC computers which display their processor speed were smart. I thought they somehow sensed the speed the PC worked at Of course, I realise now how solish I was and like most features of the PC is was all a bit of bodge.

Setting the processor speed is matter of setting some jumpers highlight the necessary segments in the LED display, that's III. There is nothing to stop you cranking it up to several hundred: ijust won't make any difference the speed of the computer, hat's all. I hope to get my display spell out my name sometime. The Turbo button doesn't do anyning other than display the word Turbo on the LEDs. Switching the computer on and off is a matter of fitting a high-tech plastic mechanical linkage arm from the switch to the re-positioned PSU.

Rather sadly an improved rating power supply is not included in the price, so when you start to fill those bays and slots think about adding more power.

I would put it under the desk, but the leads to the keyboard and trackball don't stretch. I would extend them, but I couldn't be bothered, and anyway I don't really want to hide it away. I'm proud of it. When I come into the office in the morning, it still surprises me. It's big and it's mine, and I can hang my jacket up inside it. Sometimes I catch it out of the corner of my eye, and get a shock. It's a big one all right.

It's reassuring to see a good and beefy fan fitted, although its location is not the best as it is at the opposite end of the system from the Zorro cards. However, inside the case was a lot cooler than my original system, so it seems to work well.

## Gripes and plusses

The documentation is poor, and concentrates on setting the LED speeds more than fitting the Amiga motherboard.

For example, there is no mention of the anti-static precautions which are essential when dealing with something as valuable as an Amiga 4000 motherboard.

The documentation I was supplied with also seemed to refer to a slightly different case, and overall some degree of flexibility of behalf of the person installing the system is required. The nationalistic use of the Welsh flag might also be considered unnecessary by some (not me, I like Wales).

The Tower case itself seemed



▲ The Z7 features a new daughterboard which means a lot more slots are available. There are now seven Zorro III slots .

to be be of a fair to middling quality PC style case. I still have the scars on my fingertips from the rough interior finishes.

On the plus side, pose factor is high. Some PC owners happened into the office and were awestruck as an *Imagine* render was relaying on the system which no longer bore any resemblance to an Amiga.

They were still puzzling as to the make of PC which I revealed what was inside, and I'm still not sure they believe me.

There is no doubt the Z7 has been a genuinely useful purchase. The number of drives fitted to my system before the Z7 meant that I had to operate the Amiga with the case open and a CD-ROM drive resting on the PSU. Now everything is hidden away in a cool case (in both senses), and there is still room for more kit in there, although a larger PSU might be necessary

before I connect anything else.

Amiga professionals with too many video boards will be delighted at the two video slots, as well as the ample space to park drives.

John Kennedy

#### A1200 options

The Z5 system is very similar to the Z7, but is specially designed for the A1200, and rehouses it in a tower case slightly smaller than the Z7.

Using a special board which connects to the trapdoor port (including a passthrough). It provides five Zorro II slots (and four PC slots) which means at last A1200 owners can fit graphics, bridgeboard and networking cards to their Amiga. As a result, Zorro-based hardware has now been opened up to a lot more users, which can only be a very good thing indeed. With a fast 68030 card, the A1200 can be expanded into an extremely neat and quick piece of kit.

Unfortunately the position of the A1200's PCMCIA slot means that there is no space to fit expansion cards, although an adaptor is now available that angles the slot through 90 degrees. With cards like the Squirrel proving extremely popular, there is no need to do without. Ramiga can also supply a cable to allow 3.5" IDE drives to be fitted to the A1200 motherboard, and so adding hard drives is now made even easier as well. The extra hardware included in the Z5 permits a standard PC keyboard to be used, with automatic remapping of the Amiga specific keys.

#### **Z7 TOWER SYSTEM**

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## Accelerato

## Blizzard A1230-III

Price: £various Developer: Blizzard ■ Supplier: Harwoods © 01 773 831040

he Blizzard A1230-III card from phase 5 Digital Products got a warm reception on its arrival a few months ago. It was the first card for the A1200 to feature a 50MHz 68030 processor, offering the highest speeds ever available to A1200 owners.

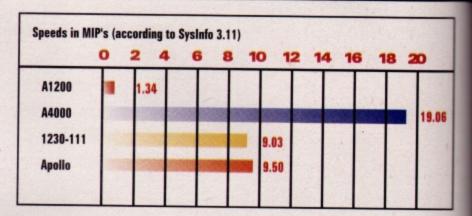
It's available with two different processor configurations: either a 40MHz 68EC030 or a 50MHz 68030. The board tested here was fitted with a 50MHz processor. Complementing this chip is up to 32Mb of Fast RAM in the form of industry standard 32bit SIMMs. There's also space for a maths co-processor, a builtin battery backed clock and an expansion bus for an optional SCSI-2 controller.

This is the third revision of the 1230, which is reflected in its design. There's a minimal number of components, no last minute alterations to the circuitry and an elegant all round design.

All this hardware is surface mounted on a traditional 'L' shaped card that fits snugly into the A1200 expansion slot. As usual, fitting it can be very fiddly, but at least it does fit into the Amiga, thanks to the SIMM socket which keeps the memory chips flush against the board, held in place by metal, rather than plastic, clips.

The Blizzard does have occasional compatibility problems with some PD demos, but works fine with all 'serious' software and games we've tried.

The main factor though is speed and here the Blizzard does very well. Clocking up just over 9 MIPs, it makes processor-intensive tasks much easier to bear.



The optional SCSI 2 interface has not yet surfaced, but should be with us soon. Over all the Blizzard

offers great performance and well SUPERSTALL thought out, high quality design. **Andy Leaning** 

Price: £29.95 Developer: Optonica © 01455 558 282

long with a hard drive, a file manager is among the most useful expansions that can be added to an Amiga. Once you get accustomed to using one, you'll wonder how you ever got by in the past. File managers make tasks such as copying and viewing files much easier and quicker. The market for such utilities is currently dominated by Directory Opus, Version 4 of which was cover mounted on the February 95 issue of CU Amiga Magazine.

Optonica's InfoNexus has a lot to live up to, and compared to DOpus first impressions aren't that good, although that's mainly due to the garish colour scheme, which can be changed.

Thankfully things improve considerably once you get into the program. Features-wise Info NEXUS contains many functions similar to those featured in DOpus 4, plus a few tricks of its own.

These include compatibility for use over an Envoy network enabling chat, mail, quick file send and remote screen grabbing as well as the ability to both play and

emulate CDXL video files. Perhaps InfoNEXUS' biggest selling point however, is its thorough support for

datatypes, something which is becoming increasingly important as ever more appear. While DOpus allows button configuration for viewing external program documents it can be cumbersome to set up in comparison.

Batch sequence renaming completes InfoNEXUS' powerful range of custom features. Everything from file names to files



Powerful features in InfoNEXUS includes support for datatypes and CDXL rideo files.

in directories within the source directory can be renamed. assigned prefixes or suffixes quickly and painlessly.

The user interface is also novel, based around a 'pop and roll' system rather than the familiar 'point and click'. Instead of moving to the top of the screen to access a menu, the right mouse button can be clicked anywhere on screen to

# Head to Head

## Apollo 1230/SCSI 2

■ Price: £various ■ Developer: Apollo
Supplier: Visage Computers © 0115 964 2828

he Apollo is the latest accelerator to appear for the A1200. Its specifications are very simiar the Blizzard 12300-III. Packing either a 40MHz 68EC030 or a 50MHz 68030, battery backed clock, optional FPU, and RAM, on paper it looks very similar. But there are several important differences. It has two SIMM sockets instead of the one found on the Blizzard card. This means that you can increase your RAM in future by adding an extra RAM SIMM. If you wanted to do the same with the Blizzard, you'd need to sell or discard the original SIMM. However, the plastic sockets are a bit flimsy, and hold the RAM at an angle to the board, making it a tighter fit that than the Blizzard.

On a more positive note, the Apollo board has a SCSI 2 interface as standard. This plugs into the end of the board and can either be threaded through to the blank panel at the back of the A1200 (which involves opening the case and temporarily removing the floppy drive) or just dangled out of the trap door hole.

The Apollo isn't as well built as the Blizzard. It's too big to fit into the A1200 properly, and the positioning of the SIMMs doesn't help matters. A couple of digits had been scratched off the processor chip of our review model, but the developers could shed no light on why this would be. This suggests that it could be clocked, in which case its lifespan may be shorter than usual. But if it's speed and features you want, then the Apollo is tops, registering a nippy 9.5 MIPs in our tests and sporting two SIMM sockets and a SCSI 2 interface to boost your Amiga's potential.

**Andy Leaning** 



#### Conclusion

Rarely do two competing products cause such argument in the CU Amiga offices. Finally we decided that the Blizzard is better built, easier to fit and if you don't want SCSI (which a large percentage of users don't) it's a lower cost option. The Apollo, however, has better features, is faster, and has superior expansion potential. So which is the overall winner?

After much deliberation we came to one conclusion. It was a long, hard fought battle. However, at the end of the day Accelerators are for one thing, making your Amiga faster and the Apollo does better than any other A1200 card – so the Apollo is the winner.



A Comprehensive on-line help system is included. Just move your pointer over the icon causing trouble and press the help key for advice.

bring up a menu. In a nutshell that's the 'pop'. The 'roll' refers to accessing a menu by holding down the right mouse button and altering its action by clicking the left button.

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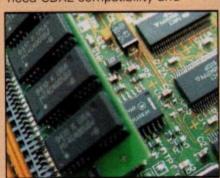
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For instance a standard menu setting warns the user when they are about to delete files. By holding down the right mouse button and clicking on the left button this quickly changes the menu so that there is no warning when deleting files. Traditionalists will be pleased

to learn that it's still possible to access menus from the top of the screen, that's if you want to return to Workbench though. The 'pop and roll' interface is brilliantly intuitive!

More standard features include the ability to view various graphics modes, everything from animations (along with speed, loop and step frame controls) to images saved in all formats with auto AGA to ECS conversions on non AGA machines. It's also possible to play music and sound files and read AmigaGuide documents. InfoNEXUS' manual deserves praise too, as it lists each of the menus and icons in order, complete with detailed information. A big slap on the wrist for the numerous spelling mistakes and lack of index though.

But while the handling of datatypes and the 'pop and roll' system is user friendly, the package itself isn't as immediately configurable overall when compared to *DOpus 4*. If you want an alternative then you'll find InfoNEXUS a competent file manager which is probably best suited to either less frequent users who don't want the additional expense or features which *DOpus* offers, or small businesses requiring Envoy compatibility and/or those creating multimedia presentations who need CDXL compatibility and



▲ InfoNEXUS automatically downgrades AGA pictures for display on ECS machines.

emulation. It will be interesting to see both how InfoNEXUS performs and compares to the updated *DOpus 5* to be reviewed next month.

**Rik Skews** 

#### InfoNEXUS

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D168 DUPLO: "MY MAMMA IS A YAMPIRE" [20] AGA
an excellent, very long demo from Duplo
D169 FREEZERS "WIT PREMIUM" AGA
The best AGA demos from November - pet this! The bost Ad dwnn from November - pat thie!
D177 DIGITAL "ETERNAL MADNESS" [AGA] [2 DISKS]
minased after the party, very raised [1MB FAST RAM+]
D178 VIRTUAL DREAMS "PSYCHEDELIC" [AGA] [3 D]
voted 2nd at the party, Cutstanding routiness [MD only]
D179 POLKA BROS. "THE PREY" [2 DISKS] D179 POLKA BROS. "THE PREY" [2 DISKS]
HOW! The very best burnal-sequence ever! Amazing.
D180 OXYRON "KILLING TIME" (AGA) [4 DISKS]
get this to see the 4096 colour "Rol-Zoomer".
D183 IMPACT "IN A WORLD OF ASCII"
Very, very original? Buy it and be impressed?
D185 POLKA BROS. "VISIONS IN BLUR!" [4 DISKS]
loads of apol-on, great affects in this new defend!
D186 OXYGENE "HINIGO" [2 DISKS]
reasonable demo with a great burnal sequence
D188 SANITY "ROOTS"
the routines in this are decent. Some nice effects.
D189 ANDROMEDA "NEXUS 7"
volved 1st at the Parry 941 Absolute must!
O190 REBELS: "WHAMMER SLAMMER!" [AGA] [3 D]
Rebets produce superch demost? This is no exception! Redete produce superts demos! This is no acception!
D191 BOMB "MOTION ORIGIN 2" [AGA] [2 DISKS]
has the best Doom part event knissistable demos!
D192 ASYLUM "ZEROS & ONES" [AGA] quite a good, all nound down tem mass guys.

D194 TRADEGY "STRUISJE GETS SCREWED" AGA

D194 TRADEGY "STRUISJE GETS SCREWED" AGA

of my fixuowine at all, but good for DU Amiga P??

D195 ABYSS "DOVE" [2 DISKS]

a pretty good demo from the Parry 94.

D196 TRSI "THE CUBIC DREAM" AGA [2 DISKS]

Sest demo this month. A definite must have!

D204 MYSTC "IMPOSSIBLE IMPOSSIBLITY" [2 D]

Winnau of the Primarysia gody 95. Get this!

Quality a decent diemo from TRSI, this time! Oute a decent demo from TRSI, this time D205 THE INTERCEPTORS "BLUE" Another demo from the Primarvera Party 1 Another demo from the Primervers Party 1985. Not pad.

CALL FOR DEMOS FROM THE GATHERING 1995

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#### **GAMES**

GM11 MEGABALL AGA a very good (probably the best) but and ball game GM41 TETRIS DUEL AGA probably the best Tetris program there is GM60 BAZZA AND RUNT AGA in Amigo "Jet Set Willy" rip-off. Addictive! GM105 DYNAMITE WARRIORS 2 DM111 IN THE DEAD OF THE NIGHT [3 DISKS] a decent game similar to "Wing Commander" GM112 PUCMAN WORLDS GM114 FLAMING ENGINES Another decent car racing game. GM118 CHANEQUES [2 Disks] one of the best Totis games on the Amiga. GM12s KELLOGS LAND [AGA] WOW! The very best PD platform game event GM12s SUPER MEGA FRUITS a good Fruit Machine game. GM127 ZAXXON Superbl The C64 classic now comes to the Amigal GM130 FishY FISHY eat the small fish, would the sharks and grow! GM132 SAMURAI SHOWDOWN [AGIA] GM132 SAMURAI Showhold this is an amusing Street Fighter clone. Good!
GM133 HYPER RACE [2 DISKS]
Total and a super-acrint clone. Multi-player racing. another super-aprint dione. Multi-player racing. GM136 CVBERMAN word A 3D pacman dione. Very decent indeed. GM136 INTERNAL COMBUSTION great skidmarks-esque multi-player racing gam GM141 MADHOUSE (2 DISKS) a graphical skidmatun same. racing game 3M147 DELUXE GALAGA v2.51 must be the best PD shock-em-up ever made!
GM148 CLASSIC PUCMAN
classic Pacman as it was originally designed
GM149 AMICA DEMON v1 poker card game for the Amiga GM150 ROCKETZ V2.25 [AGA] superb AGA only 2-stayer thrusolahoot-em-up game GM151 INFECTION wery hard to applien, 4-player game with playability GM152 JUMP UM guide Spud through the levels to reach his cheque GM153 BOING V3 decent thing-on-a-spring type platform game GM157 MASTER BLASTER

### GM161 OOZE AGA [2 DISKS] coze is soop addictive. 2 player infection game!

ocze is soco addictive. 2 player info GM162 OOZE ECS GM164 CYBERGAMES [2 DISKS] excellent! A street-fighter clone with the best best-em-up games in the Public Domain. Arisingal Honor VI.9

Animated horse racing betting game. GM166 GRAVITY FORCE 2 GM165 GRAVITY FORCE 2
Compulsive 2 player split screen blaster. Great!
GM167 ACE THE SPACE CASE
Ton each platform romp, commercial standard.

Gentler Acts of the Commercial standard. Top notch platform romp, commercial standard. GM168 SCAVENGE [WB3+] 2 player split screen blaster set within a maze. Good graphics and extra weapons pick ups. GM169 MASH Similar to Team 17s new Wormz game. A subtle cross between Lemmings and Cannon Fodder. GM173 POWER WALLS a decent bat in bell game

excellent tank-war sim GM175 NICKY 2 GM176 ALIEN GENOCIDE (2 DISKS) err. A Operation Wolf clone? GM177 ISLAND

s little like populas - hotel type game GM178 DOOMER (AGA) (HD ONLY)

a good Doom clone for the Am GM179 SLIDER AGA little puzzle game for AGA only GM180 CARNAGE

on the Spaccy? Well this is the GM184 SCREECH

offenerotal version More allans. SM188 CARD GAMES DELUXE [3D] [2MB] it lest! A program that allows you load and use your Clondike cards! Blackjeck and another on here

GM190 BEETLE GM191 CHILD MURDERER AGA [3D] olive the mystery to clear your name GM192 CHILD MURDERER ECS [2 D]

BCS version of the control of the co similar to Dyna-warriors - 2 player bomb game GM158 THINK A MANIA [WB2+] superb snap game with excellent graphics GM195 BATTLE DUEL ECS [WB2+]

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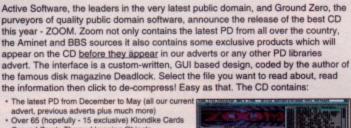
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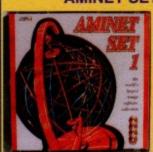
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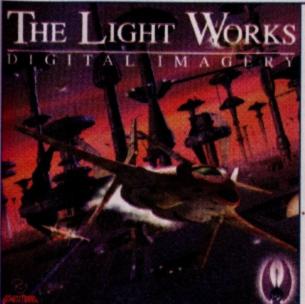
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WEIRD SCIENCE FONTS CD. IFF, PCX, ADOBE ETC



Andy Leaning discovers something old, something new and something blue in this little lot ...

# CD-ROM Round up



The Light Works

Tobias Richter is one of the most famous Amiga 3D artists there is. Now, thanks to this CD, you can sample his work and create your own images based around his 3D models. The Light Works CD contains many 3D objects and surfaces created by Tobias, in *Cinemana 4D, Reflections* and *Imagine* formats. The emphasis is on science fiction and space craft. There's also a large collection of pictures and images already rendered that show what can be achieved with the data files on the disc. *And* there's some animations on the disc as well.

In addition to the artwork from Tobias there is a huge collection of PD objects, textures and images. These are not as good as those from Tobias but they are still worth a look. As an added treat there's a demo version of the hot 3D rendering program *Maxon Cinema4D* on the disk.

If you're into 3D rendering this disc is worth a look simply for this demo alone. For owners of *Imagine* and *Cinemana 4D* this is a must have, although its high price prevents it from getting a CU Amiga Superstar award.

17 Bit, 1st Floor Offices, 2/8 Market Street, Wakefield, West Yorkshire WF1 1DH. Tel: 01924 366982. Price: £39.99.

AMIGA

88%



Insight Dinosaurs

We have already looked at this disc but that was before CD technology took off on the Amiga so a lot of new CD owners won't be aware of it. It's one of the better discs available so it's worth a second look.

Insight Dinosaurs was created by Optonica in conjunction with the white coated bods at the Natural History Museum. As such it's probably the most authoritative reference CD about Dinosaurs on any platform. Everything you could want to know about the scaly skinned ones and their environment is here. This includes an A-Z of Dinosaurs, their anatomy, attack and defence behaviour, the climate, fossil hunting time lines, and continental shifts.

This disc is wonderfully well put together. The information is accessed in a variety of easy and simple ways. The text is interesting to read and surrounded with colourful illustrations, graphics, and video. All this is complemented with clearly narrated sound and audio effects. For reference purposes Insight Dinosaurs is brilliant. And there's a kiddy's Dinosaur paint package, puzzler and quiz thrown in as well!

Optonica, 1 The Terrace, High Street, Lutterworth, Leicestershire LE17 4BA. Tel: 01455 558282. Price: £34.99.







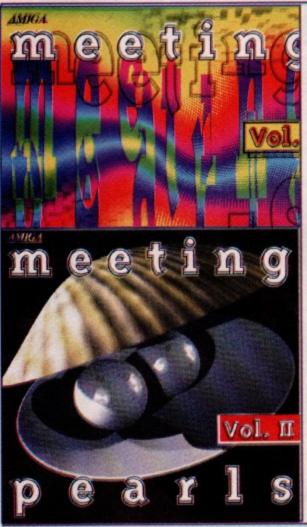
#### **Compendium Deluxe Vol 2**

Compendium Deluxe Volume 2 is packed with demos, games, utilities, disk magazines and comms utilities all of which are quickly and easily accessed thanks to an Amiga Guide menu system.

One section of note is dedicated to programming, including ARexx, C and AmigaE files. Another nicety is the clear warning that you'll need an AGA based Amiga to access many of the programs and animations. It's nice to see someone thinking ahead and warning these users in advance they they will have problems using the disk. This message is also followed up by a warning that the disc contains disk magazines using explicit language. It's good to find a PD company with a sense of responsibility. The disc does contain quite a lot of new material and as such it doesn't suffer as much in comparison to Aminet Set 1 (reviewed April '95) collection as Meeting Pearls. However if you're looking for a CD pack to give you a mass of programs the Aminet Set 1 still wins purely on the basis that it includes so much. However as a sample of what typical PD CDs offer this is a good selection.

PD Soft, 1 Bryant Avenue, Southend-on-sea, Essex SS1 2YD. Tel:

78%



#### Meeting Pearls 1 and 2

01702 466933, Price: £19.99.

Meeting Pearls one and two are sold separately but both have similar contents, so it's worth mentioning the two of them in this review. They are both collections of shareware programs, useful information, pictures and sound files. All pretty standard stuff really.

So what make them special, if at all? What is worth noting about them is that the software on them can be run immediately (without any decompressing); a simple touch which I'd like to see adopted by more CD compilers.

The biggest difference between Volumes 1 and 2, apart from the varying content is the user interface. Volume 2 features a better smoother user interface and file finding tool, which allows you to hunt down files quickly and easily. Once you've used this easy control method to get the file you want all you have to do is copy the files to a hard drive. It's as easy as falling off the top of the wardrobe (If you say so Andy Ed).

On the subject of content, both discs fare well, although if you're looking for a comprehensive collection of PD and shareware software, the huge four disc Aminet collection is probably a better choice. Fractal images are in plentiful supply, although most of these are still screens. Surely we could have had some massive fractal zoom animations with all of that CD space?

The pictures and sound files included here are of reasonable quality but not outstanding. There are several interesting programs on here that I haven't seen before, and a collection of HTML pages from the Internet.

In short Aminet Set is better simply because it has far more information, but as a one disc, low cost, source of interesting and unusual Amiga shareware this is a good alternative.

Weird Science, 1 Rowlandson Close, Leicester, Leics. LE4 2SE. Tel: 0116 234 0683. Price: £19.95.

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CD32 - CDTV - A570

92%FORMAT GOLD AWARD 91% CU AMIGA (TOP RATED) 96% CDTV USER GROUP NEWS 90% COMPUTER SHOPPER

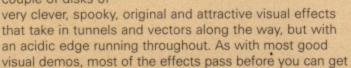
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## PD Scene

All the latest public domain demos, games and oddities as selected by our finger on the PD pulse man Tony Horgan.

#### Deep AGA demo

This is one of those demos that you can't really describe by reeling off a list of effects, because then it would sound just like any other demo. What you get is a couple of disks of



into them properly, but I suppose that's better than staying around until they get boring. There's also a decent soundtrack, that uses jungle breakbeats and techno sounds in a laid back kind of a way, instead of coming across as a second rate gabba tune. Good stuff.

Available from: Freestyle PD, 108 Woodside Way, Short Heath, Willenhall, West Midlands WV12 5NH. Tel: 01922 710985. Price: £2.00

plus 50p post and packing. Requires extra RAM.



## Blast 'em



"That's a bit crap", said a passing observer as I shot up a few aliens in Blast 'em. "Yes, but it's only going to cost a couple of quid, it's PD," I replied. However, further investigation revealed Blast 'em to be a licenseware game, selling for over a fiver. For that I'd expect a bit more than this simplistic Galaga variant. Even so, it's quite playable in short bursts, and would partially satisfy anyone craving a new shoot 'em up.

Available from: Hornesoft PD, 23 Stanwell Close, Wincobank, Sheffield, S9 1PZ, England. Tel:01142 492950. Price: £4.99 plus 70p post and packing.



## Itchy and Scratchy 2 & 3 animations





Re-animated from their TV originals, Itchy and Scratchy are now available on your Amiga. Volume 2 is a single disk, containing the Kitty Kitty Bang Bang episode. Digitised music and sound effects accompany the re-drawn animation. Volume 3 follows suit, with the Germs of Endearment episode. If you like a bit of over the top cartoon gore, check them out. Both disks are available separately.

Available from: OnLine PD, 1 The Cloisters, Halsall Lane, Formby, Liverpool L37 3PX. Tel: 01704 834335. Price:

75p per disk plus 75p post and packing.

80%

## Manual Override

Subacid have come up with a good selection of new and unusual effects. Bear with me while I try to describe a few of them. First of all there's a sequence of tracer trails, interspersed with some weirdo pictures. Variations on the plasma theme follow, filling the screen with variously colour wobbly bits. Finally there's a looping 3D animation of a puppet having sex with the Subacid logo. There's not a lot too it, but what's there is fun. Available from: Freestyle PD,

Available from: Freestyle PD, 108 Woodside Way, Short Heath, Willenhall, West Midlands WV12 5NH. Tel: 01922 710985. Price: £1.00 plus 50p post and packing. Requires extra RAM.





80 %

#### Aberrations AGA demo

Most of this one is pretty tame stuff, but between the 3D dot patterns there's some good plasma fractal zooms. It's just a shame you can't home in on the good bits and cut out the rest. Fans of The Grid may enjoy the noisy sample loop from Rollercoaster.

Available from: Mon PD, 9 Lon y Wylan, Llanfairpwll, Ynys Mon, Gwynedd LL61

5JU. Tel: 01248 714 591. Price: £2.00 plus 50p post and packing.

64 %



#### Jet Set Willy 3

#### game

If you're the kind of person who likes games from the mid 80s, I bet you've got a lot of PD games in your collection. In that case, here's another one for you. It's the unofficial follow up to Jet Set Willy 2 (in case you hadn't realised), and continues in the flip-screen platform format of its forerunners. Innovations are in short supply, and the gameplay is well past its sell by date, but if you like competent but dated platform games, don't hesitate.

Available from: Sadeness

Available from: Sadeness PD, 13 Russell Terrace, Mundesley, Norfolk NR11 8LJ. Tel: 01263 722169. Price: £1 including post and packing.



#### Cyberman

#### game

Imagine Pacman in 3D. That's Cyberman. The full screen display shows a first person perspective view of the maze, and a plan view is also included in the top corner to help you keep your bearings. The game remains faithful to the original Pacman, apart from the additional jump feature for when you come face to face with a nasty. It runs surprisingly smoothly on unaccelerated Amigas, so don't assume you need a 68030 to get any joy out of it. However nice it may be, it's still Pacman though, so unless you're a real Pac-freak, you'll find its appeal wanes pretty soon.

Available from: Pixel Digital PD, Stanley Dock Market, Regent Road, Liverpool 3. South 4, Pitch 121. Tel: 0151 259 4017. Price: £1 including post and packing.



## Titanic II

You may remember some time ago we looked at the original version of this disk book devoted to the Titanic. This new updated version doesn't add significantly to the first, but fixes a few bugs and slips in a quiz and a few more sections. If you got if the first time round, stick with what you've got, but otherwise Titanic fanatics should snap it up.

Available from: Paul Thompson, 7 Queens Road, Formby, Merseyside L37 2HF. Tel: 01704 872868. Price: ££4.99 including post and packing. Upgrade from version 1: £2.49 (return the original disks). State the Workbench version of your Amiga when ordering.







80 %

#### Dream<sup>3</sup> AGA demo

Although there's nothing particularly new here, the effects are still well worth a look. Feedback zooms, expanded ray traced animation loops, starfields, vectors (yawn)... it's all here. You'll need to disconnect any RAM expansions from the A1200 before you run this two disker, which is a bit of a pain, but give it a shot anyway.

Available from: Pixel Digital PD, Stanley Dock Market, Regent Road, Liverpool 3. South 4, Pitch 121. Tel: 0151 259 4017. Price: £2 including post and packing.



## 20 Utilities

**Amongst the** swirling mists of time. **David Cassidy** spies some very serious public domain.

## The Designer 1.42 interface constructor

Setting up a user interface can be a real pain if you don't use something such as Designer. It's like an art package but instead of drawing graphics, you use it to set up systems of windows, menus and images, and mouse and keyboard controls. This can then be used as a front end for your own presentations.

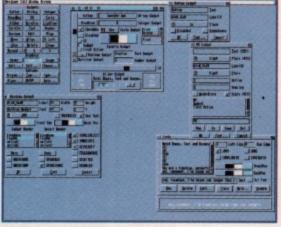
> Once you've finished, the interface can be saved out as either Pascal or C code.

Designer gives you access to intuition routines that were previously only available to programmers. The WB3.0 NewLookMenu types can also be included in your code. As updates become available the output code can also be improved. Ian O'Connor has produced a great program here, easily rivalling GadToolsBox and Visual Arts for features and ease of use. This demo version has parts of the save function disabled.

Available from: Pixel Digital PD, Stanley Dock Market, Regent Road, Liverpool 3, South 4,

Pitch 121, Tel: 0151 259 4017.





▲ Designer — a must for setting up a user interface.

Horkbench Screen

#### jpegAGA 2.1 picture viewer

JPEG or JFIF files can be displayed using programs such as FastView or FastJPEG but jpegAGA claims to produce images of much better quality. It does this by using colour maps (.map files) which can be created using utilities included on the disk.

Images can be scaled to fit your screen choice (also fully configurable, including PC modes) and JPEG files can be created or decompressed using programs in the package.

It's a powerful program and needs a 68020 or faster processor, AGA chip set and OS3.0 or higher.

Some functions also require an FPU. As it uses the unadulterated Independent JPEG group source code (version 5A) it's also much slower than its counterparts, but the results are superior.

Finally, Gunther Rohrich, the author, is looking for co-developers and betatesters. If you are interested check the on-disk documentation for details.

Available from: 17 Bit Software, 1st Floor Offices, 2/8 Market Street, Wakefield, West Yorkshire WF1 1DH, Tel: 01924

366982, Disk No. 3592. Price £1.50 plus 50p P+P.

#### **Blitz Blanker 2.5** screen blanker

Monitor burn-in (where an image that has been on your screen for too long burns into the screen permanently) is a very rare occurrence amongst home computer users, as they tend to use a variety of different software packages. But the screen blanking business is huge. PC owners pay money for these packages, but then they pay money for Windows so we shouldn't be too surprised.

Blitz Blanker is good for several reasons: it's light on your CPU and intelligent in this respect too, so if your Amiga is working hard the blanker will make concessions to lighten the load a bit, it supports graphics cards (tested with Picasso 2 and Piccolo), it has an ARexx port and it's modular.

The range of blankers themselves is excellent, including the usual fireworks and clocks.

Pass Key

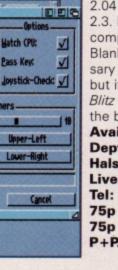
Workbench 76% full, 5,886K free, 15H in use

ht 1993-95 by Thomas Borkel

ctrl esc

but there are also cuter ones, like a nice spinning Amiga 'tick' logo. It requires Kickstart

2.04 and Magic User Interface 2.3. Installation and usage is a complete doddle too. Blanking may not be necessary for many Amiga users, but it's mildly entertaining -Blitz Blanker is one of the best Available from: Online PD, Dept CU, 1 The Cloisters, Halsall Lane, Formby, Liverpool L37 3PX. Tel: 01704 834335, price 75p plus 75p P+P.



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G503 MASH Similar to Team 17's new Wormz game. A subtle cross
between Lemming's and Cannon Fodder. Shareware.

Tra features including a 2 player on screen at once option. Fab.

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Final Writer is a superb word processor but it lacks the text wrapping and fancy effects of some of its rivals.

Final Wrapper sets out to solve this problem. It's an ARexx script which allows you to create text in spiral, elliptical and circular forms. You can combine these types, add shadows, use any fonts or text attributes and all sorts of extra wonderful twiddly bits, to make your text look really snazzy.

New features since Version 2.1 include a menu to set your desired preferences, shadows, patterns taken from existing text, on-line help plus a tutorial, character sizing and relative proportioning (in spirals), an ARexx interface, and a whole host of other improvements and bug fixes. You also get another set of ARexx scripts, such as Final Waver (for creating sine wave effects) and seven others. If you use Final Writer a lot, but want to jazz up your printed pages, get Final Wrapper.

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## AMosaic 1.2 web browser

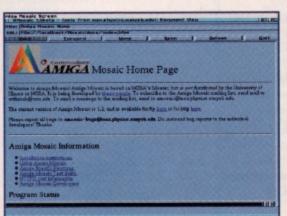
The World Wide Web is a huge part of the Internet and to muddle through it you need a Web browser. *Mosaic* has been a popular browser on other systems for a while, but it has only recently appeared for the Amiga.

To browse the Web, you enter the address of a site (eg: http://www.bbcnc.co.uk is the BBC) and then wait for the information to be returned to you.

The Web is excellent because you can view text and graphics, and hear sounds too. You can delay image downloading to speed things up and a Hotlist function is available (for your favourite sites), although it's pretty simple.

The problem with AMosaic is that it's prone to crashing. The reason probably lies with MUI (Magic User Interface). MUI claims to enhance the Amiga user interface, but I'm yet to be convinced.

To run it, you'll need AmiTCP, also available from Online PD (2 disks) or your Internet gateway provider.



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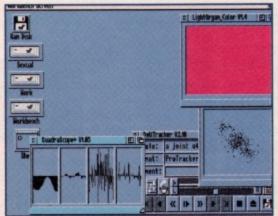
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## DeliTracker 2.10 module player

You've got some music modules and you want to play them. What do you do? You need *DeliTracker*. It supports most types of music modules, including some PC formats, and recognises crunched files (and can unpack them). It also has an *ARexx* port, and can be reduced to an AppWindow or Applcon. When in this mode, you can drag and drop a module icon over the program icon and it will play automatically.

What sets *DeliTracker* apart from the competition is its system of 'genies'. These are little programs which allow decrunching, module conversions and so on – features you wouldn't expect to find in a module player. Other genies perform no really useful function apart from keeping your Workbench looking lively, with channel monitors, flashing light organs and spiroscopes. And all of this multi-tasks without glitching.

DeliTracker is an excellent module player, which I highly recommend. Music lovers may also be interested in the module/sample ripper, Exotic Ripper 3.1, also available from Online, 1 disk.



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## Birth Date History date analyser

This program is simple. You input your date of birth and the program spews out information about world news, famous people, films and music, sports, costs of living, world leaders and astrology all related to that date. This



info can then be printed out for you to have for posterity. Should come in handy for Trivial Pursuit.

For example, I now know that Beethoven and Jane
Austin share my birthday, Nixon admitted to the
Whitehouse buggings and Slade's 'Merry Christmas
Everybody' was popular on the radio (so it could be any
year really, couldn't it?).

For throwaway information it's a marvellous program, and the registration fee of £6 (to the author) allows you to edit the various information sections yourself.

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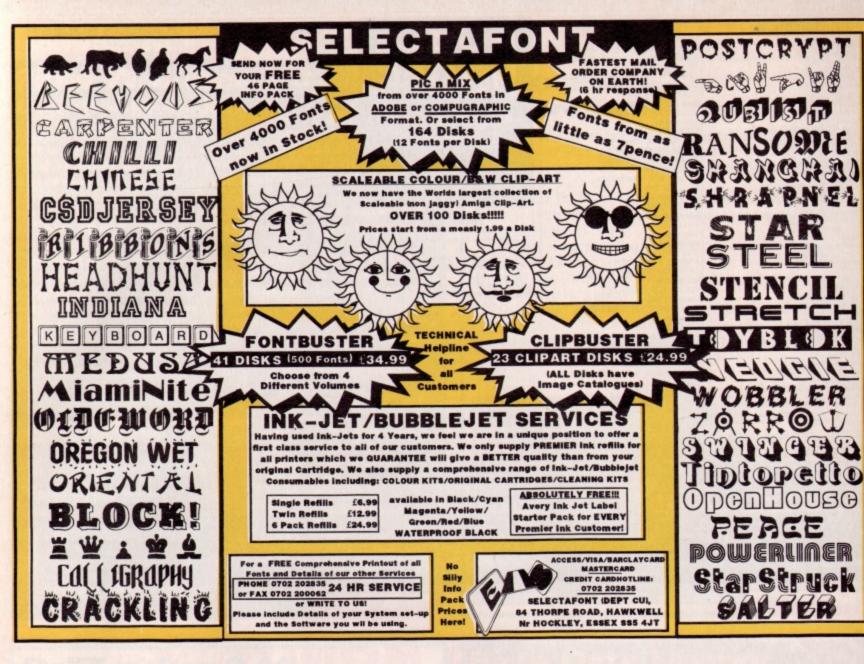
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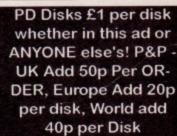
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KEY: A500+/A600/A1200

[020] = 68020 processor rq. (#) = Number of disks

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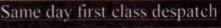
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[#MEG] = Memory rq. AGA = A1200/A4000 only.

There have been many changes in the world of Amiga over the last twelve months. This reader survey is designed to ensure that we keep tabs on what you want from **CU Amiga Magazine** and to tailor it to your needs over the next year. Please carefully consider the following questions and either. remove the pages or photocopy them and send it to us in an envelope marked **CU Amiga Magazine** Survey 1995, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU. Many thanks in advance for your help. Alan Dykes Editor

## About you

3 Are you?

In Junior school
In Secondary school
In 6th Form/6th Form College
In Higher Education (University etc)
In Full time employment
In Part time employment
Inemployed
Other:

4 What do you do in your spare time?
Please rate how keen you are on each of
the following (10 = extremely keen, 1 =
couldn't care less)

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Play video games Watch TV Watch videos Listen to the radio Go to the cinema Other:	00000	Play sports Watch satellit Listen to mus Play arcade g	ic	0000
5 On average ho spend using you	w mu	ch time do y	ou	
Less than 1 hour 2-4 hours 6-8 hours 10-20 hours	0000	1-2 hours 4-6 hours 8-10 hours More than 20		0000
6 How do you us On my own With a group	sually	with a friend With my famil	in in	00
7 When you are much of that tin spent playing ga other stuff? I spend 75% - 100° playing games I spend 50% - 75%	me, as imes - % of m	a proportion rather than y Amiga time	, is	
playing games I spend 25% - 50% playing games I spend 25% - 0%	of my	Amiga time		0 0
playing games				
8 On average, he earn/are given ea	ow mu	onth?	you	
£0-9		£10-49 £100-499 £833-1249 £1,667-2,499	0000	
9 Which of the f	follow	ing do you		
regularly buy? CDs Videos Shoes/Trainers Crisps Takeaway Food Comics Something else, na	mely: .	Tapes Clothes Sweets Drinks Books	00000	
10 Do you have society account	a ban	k/building		

If yes, who is it with? .....

## About your Amiga 11 Which of the following describes your current level of technical competence on

the Amiga?

Expert Competent Complete beginner Beginning to get the hang of most things

#### 12 Which of the following Amigas do

A500	A500Plus	A600	
A1000	A1200	A1500	
A2000	A3000	A4000/030	
A4000/040	A4000T	CD32	

13 Which version of Workbench are you running? (If you have more than one, list the highest)

1.2 1.3 2.04/2.05 2.1 3 3.1

#### 14 How much memory (RAM) does your Amiga have?

Ailing	a II	ave:		
0.5Mb		1Mb 🔲	2Mb	4Mb
8Mb+				

## 16 Do you plan to upgrade your Amiga in the next six months? Yes No No

17 Do you intend to upgrade the speed or memory capacity of your current Amiga in the next six months?

18 If the A1200, A4000 and CD32 are re-launched would you upgrade to one of these?

No 🔲

Yes 🔲

Hard Drive

Yes No No

19 Which Amiga would you upgrade to?
A1200 ☐ A4000 ☐ CD32 ☐

20 Do you think that new Amigas should be equipped with the following, even though it might increase their price?

CD-ROM Drive Y \(\sigma\) N

NO

21 Which of the following peripherals do you own, or intend to purchase or

upgrade within the next six months?

		Spinis fermina	Role playing/strategy gam	es		29 How many games do you	own?
	Own	Intend to purchase/	Sports sims			None One 2-5 6-10	11-25 🗖
		upgrade	Games with FMV included	1		26-50 More than 50 D	
SX1 CD32 Expansion							
CD-ROM Drive			26 Apart from games,	what e	lse do you	30 On average how many sof	
Extra Disk drive			use your Amiga for?			programs (games or utilities)	do
Workbench upgrade		0000000000	DTP			you buy?	
Monitor			Business presentations		00000000000	Never buy games	7
Video digitiser			Multimedia		<u>u</u>	A couple every year	00000000
Laser printer			Music (incl midi and samp	oling)		One every three months	H
Ink jet printer			Graphics and animation			One every couple of months	7
Other printer			Word processing			One per month	-
Modem			Education			Two per month	5
Genlock	ō	ā	Programming			Three per month	
Sound sampler	ō	ī	Personal finance			Four per month	<u> </u>
Accelerator	n	ō	Business spreadsheets/ac	counts		Five per month	
PC Emulator	ñ	ă	Comms/Internet etc			More than five	u
	Ö	6	Video/movie applications			The Later and the same has been	
Graphics enhancer (24-bit		5	Video/illovie applications			31 How many software progr	ams
FMV capability			27 Which of the follow	ving ma	chines do	(games/utilities) do you get g	iven
Networking interface			you (1) own or do you	(2) hav	e access to	(as presents etc)?	
PCMCIA drive		_	(perhaps via a friend)?	8 1 1 July 30		None	<u> </u>
				Own	Access to	A couple every year	
22 Which of the follow			Acorn Archimedes			One every three months	Ä
software do you own purchase or upgrade			PC			One every couple of months	_
six months?		the next	PC CD-ROM	0.	Ō	One per month	00000
	)wn/use	Intend to	PC Engine	ā		Two per month	
	willuse	purchase/	Neo Geo	ō		Over two per month	
		upgrade	Philips CD-i	0			Contract Contract
Word processor			3DO	ă	000000000000000000000000000000000000000	1	24 3 3 4 7
Spreadsheet			CONTROL OF COLUMN TWO IS NOT THE OWNER, AND ADDRESS OF THE OWNER, AND	ñ	ñ	32 How many different game	s do
Database	ā	0	Sony Playstation	00	H	you play in a month - either	of
Painting program	n ·		Sega Saturn	7	5	your own, at a friend's or els	ewhere?
Drawing program	n i	00000	Sega 32X	000000	-	None	7
DTP	00	- i	Sega Mega-CD	7	-	1-5	
	ŏ	- i	Sega Megadrive	<u>-</u>		6-10	_
Comms program		5	Sega Game Gear	<u>u</u>	_	11-15	
Internet software	0		Sega Master System	<u>u</u>		15-20	
Sound sampler	0		Nintendo SuperNES			Over 20	
MIDI sequencer			Nintendo GameBoy				
Programming language	0000		Nintendo NES			33 How long have you been to	using
Multimedia	u		Atari Jaguar			a home computer?	
Image processing			Atari Lynx			A month or less	
Rendering software	0		Atari ST/Falcon			1-3 months	
Graphics utility			Apple Macintosh	ō		3-6 months	
PD software			Apple PowerMac	ō		6-12 months	
			Apple I ovveriviac	1		12-18 months	
Other utility (own), namely	v:					18 months - 2 years	00000000
Other utility (intend to pur			28 Which machine do	you wa	nt to buy	2-3 years	
			next?	NE.	**	3-4 years	
			Acorn Archimedes			4-6 years	
23 Is your Amiga links	ed to a	HiFi?	PC			Over 6 years	T T
Yes No No		BESTA AT ALL	PC CD-ROM			Over o years	A STATE OF THE STA
		ale and a	PC Engine			34 In order of preference, wh	ich of the
24 How much do you p	lan to s	pend on hard-	Neo Geo		Ō	following are the most impor	
ware and software in t	he next	12 months?	Philips CD-i			that help you decide which s	oftware to
	ardware		Sega Mega-CD			buy? (1 is the most importan	t, 10 is the
Nothing			Sega Megadrive		ñ	least important)	KE SPILL
Under £60	ō	ā			- F	Computer magazine review	
£60-£119	ā	ō	Sega Game Gear		Ä	Computer magazine preview	
£120-£299	ō	- i	Sega Master System		5	Recommendation by a friend	
	ň	5	Nintendo SuperNES		-	Advert in a computer magazine	11
£300-£599	00000000		Nintendo GameBoy			Editorial coverage in other	4 1
£600-£899	10	7	Nintendo NES			types of magazine	-11
£900-£1199	7	0000	Atari Jaguar		_	Saw it on TV	ii
£1200-£1799	7	-	Atari Lynx		Ä	Saw an advert on TV	1
£1800-£2399	7	5	Atari ST/Falcon	* C C C C		Saw an advert on TV	1 1
£2400-£3599	7		Sega 32X			Saw it at an exhibition	
£3600 and over	u		Sega Saturn				
			Nintendo Ultra 64			Shop demonstration	1 1
25 What type of Amig	a game	s are you	Sony Playstation			Rent to try out first	- I Inc
interested in?	5		Nintendo Super GameBoy	1		Something else, namely	
Arcade style (shoot 'em u			Nintendo Virtual Boy	The same way		un	CONTRACTOR OF STREET
Board/puzzle (chess/Tetris	etc)		3DO		000000000000000000000000000000000000000	35 Where do you normally bu	
Flight sims			Apple Macintosh		Ō	games and games equipment	
Graphic adventures					ō	Dixons	
Platform games			Apple PowerMac		-	Virgin	

Woolworths Argos Comet Boots Toys R Us WH Smith Microbyte Games Our Price HMV Curry's	000000000000000000000000000000000000000	Martins	PD Scene PD Utilities Art gallery Tutorials Sound lab Q+A Backchat Points of view
Rumbelows Future Zone John Menzies Game Zone Blockbuster Video Ritz Tandy Beatties Mail order Local specialist shop Somewhere else		Sent on subscription Saved for you by the newsagent Or delivered to you by the newsagent  39 Who pays for the magazine? You Your parents/other relative A friend  40 How many other people apart from yourself will see your copy of CU Amiga Magazine? Nobody else One Two Three Four Five More than five (please write in number)	more and how would you rate each of them out of 10 (where 10 is brilliant and 1 is rubbish)?  Magazine  Buy See Used Rating to buy  Amiga Format  Amiga Action
Acclaim Accolade Acid Activision Adventuresoft Anco Ascon Audiogenic Black Legend Binary Asylum Bullfrog	Poor Don't Never know heard of them them	41 How often do you (1) buy or (2) see (perhaps a friend's copy) of CU Amiga Magazine?  1: Buy 2: See Every month Once every couple of months	The One Amiga Amiga Shopper Amiga Power Amiga Power Amiga Pro Amiga Mart Amiga CD32 Gamer Amiga Computing Amiga User International Computer & Video Games GamesMaster Edge Ultimate Future Games Video Games Shopper Max Overload Games World  49 How did you first find out about CU Amiga Magazine? From a friend In a newsagent From a magazine advertisement At an exhibition From a TV show From a radio ad From a leaflet in a hardware or software purchase Somewhere else, namely:  50 If you could change one thing about CU Amiga Magazine to make it better what would it be?
Time Warner US Gold Virgin Other favourite:  About the ma 37 Where do you usually I computer games magazin	agazines buy your	45 Do you find the technical reviews in CU Amiga Magazine: About right  Too technical Not technical enough 46 What do you think of the overall content of CU Amiga Magazine? About right  Too little game reviews/previews Too much game reviews/previews Not enough technical/serious reviews Too much technical/serious reviews Too much technical/serious reviews  47 What do you think of the different sections of CU Amiga Magazine?  Good Average Poor Covers	If you want to be included in the prize competition, make sure you fill in the coupon below  51 Your name:  Delay Please tick here if you do not wish to receive additional information from suppliers on future Amiga products and services.

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Andy Leaning helps out with some of ProCalc's more common problems and there's a guide to its database functions as well.

#### **BUYERS GUIDE 103 (**

Buyers guide has a taken a new turning. From now on we'll be looking at the most common questions asked before making a purchase. We kick off with CD drives.

#### **GRAPHICS MASTERCLASS 104**

Peter Lee takes us through a step-by-step guide to the procedures of professional image composition using Photogenics.

#### SUBSCRIPTIONS 106

Tired of racing down to the shops to discover that your favourite Amiga magazine has been sold out? Well, turn to page 106 now.

#### VIDEO IDEAS 108

Funky, groovy animation sequences are the order of the day in this month's video ideas. Tony Horgan shows you how.

#### DIRECTORY OPUS 110

Customise your menus to your own specifications with this month's guide to Directory Opus' menu configuration.

#### PRODRAW 111

This first in the ProDraw tutorial series kicks off with a look at the Clone effect and how you can create lovely seaside patterns.

#### FAQ 118 (

AmigaDOS can cause no end of heartache to anyone who tries to use it. But don't worry because John Kennedy is on hand to sort out all those niggling problems.

#### SENSI COMPETITION 124

And now we have the results. Can you bear the suspense? Turn to page 124 to find out who is top of the league.



## quiars Q+A 116

Raised on a diet of add-ons, genlocks and Chip RAM, the Q&A team know no fear when it comes to answering your technical queries.

#### **Q&A MASTERCLASS 120**

Don't even think about binning those drawers that seem that seem to sit about in your RAM disk and do nothing. John Kennedy explains.

#### BACKCHAT 122

The speakeasy for Amiga owners - your chance to get your views on all things Amiga across.

#### POINTS OF VIEW 130

Whinge, whine, whine that's all you unenhanced Amiga owners ever do when it comes to expanding your machine, says Rik Skews. Well, listen up people.







Hmmm, we start this month with a bit of a confession. Last issue we said this month would see the reintroduction of the comms page. However, due to 'technical difficulties beyond our control' it won't see a return this month but later in the year. To make up for this, though, we've crammed in bucket loads of other stuff to help you squeeze even more out of

your Amiga.

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## How You can be Rich within 3 years

My name is John Scott. Let me briefly tell you my story. Five years ago I was broke, living in a cramped rented flat and driving a rusty old Ford Escort. My clerk's salary was not enough to survive on and I was sliding into debt. I felt like a total failure. Things are very different today, I now own a large five bedroom house, a top-of-the-range Mercedes and a Porsche 911 Cabriolet, and my wife and I usually take three overseas holidays each year (we have just recently returned from a superb two weeks in Thailand)

I went from being broke to a millionaire within 3 years (certification available). I have earned more than £3 million in the past five years – not by dreaming or wishing for wealth but through hard work, trying various techniques – making mistakes along the way, but learning hundreds of little known secrets in the process.

So how come my drastic change in fortune? In the beginning I purchased almost every book available that promised great wealth through plans or schemes that required no work, but I soon discovered the information was worthless. I believe that most people selling plans that promise to show you how to make money using little or no effort make their money on the books and plans themselves – not on the formulas outlined in those

Five years ago I was lucky enough to meet and become close friends with an amazing forty-two-year-old self-made multi-millionaire. He taught me that it's not just how hard you work that counts as many people work hard all their lives yet have nothing to show for it. He shared with me his most closely guarded secrets. By closely following his advice I became a millionaire within three years. You now have the chance to share in my success because I am making two very special guides, unlike anything else you will have read — or will ever read — available to you!

#### 1. THE STREETWISE WAY TO WEALTH

Some time ago a friend of mine who had recently lost his job, aware of my success, asked me how he could do as I had. I revealed to him my methods. The results were amazing – despite his having no previous business experience he made £5,150 during his first month after following my advice and now earns quite a substantial income. His success made me decide to write a complete step-by-step guide that will enable anyone, regardless of their age, sex or education, to earn an exceptional income – provided they are of at least average intelligence and prepared to work hard and learn new

I have called this guide 'THE STREETWISE WAY TO WEALTH' (A4 format, 96 pages, illustrated. Price £20 postpaid). It shows how the beginner can start to make serious money – it's a lot easier than you may think and you don't have to quit your job to start. Obviously you will want to test it first. I will show you how to get started in your spare time at home. Don't think for one minute that you can't do it – I'll prove you can. I will reveal to you the money-making secrets that no one else will tell you. What I reveal is worth many thousands of pounds and if acted upon will make you financially secure for the rest of your life. secure for the rest of your life.

This is not some phoney "get rich quick" scheme of the type commonly available. The information and secrets I will teach you are those that I have used myself every day over the last five years. I will tell you exactly what to do and how to do it. I'll even supply you with actual names and addresses of useful contacts.

#### 2. HOW TO LEGALLY AVOID EXCESSIVE TAXES AND BUREAUCRACY

It is hard to imagine any economy without some necessary taxes and regulations. But we are now burdened with so many taxes, controls and regulations that the average businessman's biggest expense is paying off the taxman, while his time is increasingly taken up having to deal with senseless bureaucracy.

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It will also show you: how to get the guaranteed cheapest air tickets, how to fly tourist class but get first-class advantages and how to pay the very lowest rates at top class hotels. You will also be given tips and guidelines for growing in authority and power and ultimately for developing an ability to make money and live freely. 'THE FREEDOM HANDBOOK' is like no other book every pulished and there are many people and several organisations who will not like the fact that all of these secrets have now been revealed. To order either or both manuals write "Financial Freedom" on a piece of paper along with your name and address and the titles required. Enclose a cheque/P.O. for the correct amount and send to me c/o my publishers: CASUTI LTD., Dept. CUA, P.O. Box 115, St. Helier, Jersey JE4 8QZ, Channel Islands. Credit card holders may phone (01534) 617181 anytime.

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SWORN STATEMENT: "On the basis of my professional relationship with John Scott over the past five years I can certify that the above statements are true and factual and that his net personal worth is in excess of one million pounds." — M. Thomas, Accountant.

## ProCalc Tutorial



Got some queries with ProCalc? You've come to the right page. And there's a whistle stop tour of the database functions here too!

our November '94 coverdisk,

ProCalc, has proved to be extremely popular. We are still receiving lots of mail with various queries on how to get the best from it. So, let's kick off with a look at the three most popular questions on ProCalc that seem to crop up again and again.

## How do I import data from other programs?

The first way of doing this is to use the Paste File command under the Edit/External menu. This reads a file (in ASCII format) and pastes it into the cells starting at the current cell location. Every time it finds a space, comma or tab *ProCalc* moves to the next cell to the right. When it hits the end of a line it moves down to a new row. You can use this to import a table of numbers or data from a database. This is the most flexible method of getting raw data from other programs (word processors etc).

Another useful method if you are importing data from a PC spreadsheet is to use the Open/1-2-3 or Open/MaxiPlan commands under the Project/Open menu. These will read files saved in Lotus 1-2-3 (a hugely popular PC spreadsheet) or Maxiplan formats. Most good spreadsheets will save their data out in these formats, so you can then import it into *ProCalc*.

## How can I change the default settings?

Many users have contacted us asking how the programs start up default settings can be changed. How can the currency be set to pounds instead of dollars, the screen type and resolution etc.

These are all set via ToolTypes, found by clicking once on the program icon and then on the Information menu in Workbench. The various tooltypes are:

#### Screentype=xxx

Here you can set the default screen type. To load the program in Productivity mode, for example, type in SCREENTYPE=PRODUCT. Others include SUPER, SUPERLACE, PRODUCTLACE, WORKBENCH, INTERLACE, and CUSTOM.

#### Currency=£

This tells the program to use the £ symbol as the default currency sign. Two characters can be used: eg £, \$, DM.

#### Database city

And now for something slightly different: ProCalc's database capabilities.
Although ProCalc is a spreadsheet it also serves as a database program. You can build a database of text or numerical entries, sort them, find specific records using complex search patterns and even extract particular records.

To use *ProCalc* as a database load the program as normal and create a new spreadsheet. Each line down the page is a new record, whilst each cell across represents a field in that record. The cells at the top of the spreadsheet holds the field names. In our example I've created a database of people, correlating their ages, and hair colour.

We need to tell *ProCalc* that this data forms a database. Highlight the cells from the top cell to the bottom right-hand cell including the first row containing the field name row. Click on the menu Data/Define Database and give it a name of up to 15 characters. This is the name *ProCalc* will use to refer to your database.

We can now try out some of the sophisticated database handling capabilities. To sort the database move the cursor to one of the three columns and click on Data/Sort Database. You'll now see the data rearrange with the data sorted into order according to data in that column. Try moving to another column and sorting it again and see how it changes.

You can also set up a selection criteria to pick out just records that match



A typical database setup with three fields: names, hair colour and age. This can be sorted and searched to your heart's content.

a particular search pattern. In our case we want to find all records of people under 15 years. Move the cursor A10 and type in 'Age'. In A11 type '=<15'. This tells ProCalc that our search will check just the field 'Age' and compare all records to the formula we've given, in this case are they less than 15. Highlight cells A10 and A11 and click on the Data/Define Criteria menu and give it a name, 'above15' for example.

Now select Data/Select Database and Data/Select Criteria and select the database and search criteria names you've created - this is in case we'd created multiple databases or search patterns. Click on the Data/Find menu and the cursor will move to the first record that matches this pattern. Press Shift-F1 to find the next or click on the menu option again. When no more can be found the message, 'I couldn't find any more records' will be displayed.

Try experimenting with the other database commands using similar techniques and see what else you can make it do. If you get stuck don't worry, next month we'll look at the others in more detail.

#### Fastrefresh=xxx

This can be one of two settings, 'ON' or 'OFF'. If 'ON' is used the windows will update quicker but more chip memory is needed. 'OFF' is slower but requires less memory.

#### Numlock=Off

This turns the Numlock mode off making the numeric keypad operate as cursor keys.

#### Eurodate=True

Dates are in European format (08-June-95)

## Can Luse ProDraw with ProCalc?

If you've got *ProCalc* and *ProDraw* from our coverdisks you'll be pleased to know you can export graphs from *ProCalc* to use in *ProDraw*. To do this create a graph as normal and then save it as a 'Draw' format file. You'll then be able to load it into *ProDraw* as a clip file.

If you have any further queries write to:
ProCalarama, CU Amiga Magazine, Priory Court,
30-32 Farringdon Lane, London EC1R. 3AU. ■

**Andy Leaning** 

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# Buyers Guide

Thinking about getting a CD-ROM drive? Well bone up on all things CD with CU Amiga

Magazine's guide to buying.

his month we see a slight change to the style of the regular buyers guide page. In previous issues this column has looked at the financial side of buying: interest charges, warranty cover, discounts and the like. From now on however we'll be answering some of the most common questions posed by those looking to buy certain products. This month we kick off the series with a look at that most hottest of peripherals – the CD drive.

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A quick glance through the pages of CU Amiga Magazine revealed there were at least ten different CD drive models being advertised, with prices starting from just under £200. So how do you know which is best for you?

#### **Overall winner**

Perhaps the most common question we are asked is "which is the best CD drive available?" This is a tricky one, as it really depends on your particular requirements, and budget. However, in the tests we've carried out here, the Power Computing CD drive came out tops. It's not the fastest, but offers good all round performance for a very reasonable price.

Another question that frequently find its way into our post bag is "should I buy a hard drive or a CD drive?" The two drives are fundamentally different in many respects and can't really be compared side by side. As it happens they both play off each other, with the hard drive offering advantages over the CD drive and vice versa.

Unlike a hard drive, a CD drive can't store data or programs you've created. Each disc can only contain what the manufacturer put on it. However, you can save anything you like onto a hard drive. The reverse of this is that data on CDs is permanent and can't be erased, lost or easily destroyed. With a hard drive you can delete files, crash the disk, or format it

and lose everything by accident.

Another difference and an often misunderstood one at that, is that CD drives improve the quality of your Amiga's sound. This isn't because adding a CD drive enhances the Amiga's audio capabilities. Instead the drive has its own sound circuitry and can play back normal music CDs, and it does so at a higher quality than the Amiga's audio electronics allow. The (music) soundtracks to most CD games are played directly from 16 bit CD audio tracks, and sound better than standard 8 bit Amiga music. However, sound effects still need to come from the Amiga's internal audio hardware. In this case, all the Amiga is doing is playing a normal audio CD track.

The same kind of thing is true when it comes to graphics. Many CD games have swish intro sequences with pre-rendered graphics or full motion video -Road Kill, Alien Breed Tower Assault etc. This is not made possible because a CD drive adds sophisticated polygon rendering hardware (if only!) but rather it can play back long, complex animations directly from the CD without constant disc swops. Games developers add such animations to the front of their games to add atmosphere and make the games look better.

## Games compatibility

The other big question that keeps cropping up concerns games compatibility; will the various CD drives allow you to run CD32 games? Without testing

each individual title this is nearly impossible to answer. Most Amiga CD software should work on any Amiga with a CD drive attached, but life is never that simple. Programmers tend to take advantage of the hardware specific to particular models of Amigas, so a CD32 game will take advantage of the Aiko chip that's only found in that machine, whilst A1200 programmers will use the AGA chipset that isn't in the A600 or A500. This means that while a CD drive on an Amiga may load the software, unless it has some way of emulating the hardware of others it may not be able to play the games.

On the Zappo and Power drives the developers have tried to emulate the custom chip in the CD32 and provide this compatibility. However, because it's a software emulation it's not fully compatible. So far the Power drive and Squirrel based CD drives seem more compatible with CD32 games than the Zappo drive. We hope to bring you a complete list of CD32 titles compatible with all CD drives shortly.

That's it for June (who's she?). Next month we'll be looking at modems to help you join the digital revolution – stay wired.

**Andy Leaning** 

Jargon explained

Double/Quad Speed: These terms relate to the speed of the CD drive. Original drives (single speed) transferred roughly 150k of data per second. Then along came double speed drives, 300k per second and recently quad speed models, 612k per second have started to appear.

SCSI: Small Computer Systems Interface. A type of interface used to connect CD-ROM drives and other storage devices. SCSI interfaces allow up to seven devices to be attached at once, and are typically faster than IDE based drives. The Squirrel and Power Computing models are SCSI based.

IDE: Integrated Drive Electronics. Another type of interface used to connect hard drives and CD-ROM units to computers. IDE is slower but also cheaper than SCSI.

ISO 9660: The name of a common format for CD discs. If a disc is ISO9660 format you'll be able to see the files on it and read them – PC and many Mac CD discs are in this format so you'll be able to read them from your Amiga.

# Graphics Mas

Discover the secrets of professional image composition. This month Photogenics is the main tool.



▲ Spooky eh? Fantasy artist HR Giger meets his grisly creation in this scary montage. Want to know how you can create something like this?

on. This led to a stone carving kind of effect Inserting the alien

it was blurred, and then



▲ The above carved stone effect was created by passing the original pencil drawing through an emboss process.

n order to recreate the final picture some work needed to be carried out first on the background image, a sketch of an alien

drawn by Giger (the well-known Amiga artist see box out for more details). This original image was too strong to be used as a background, so it was put through a few Photogenics processes. First

For the foreground, a closecropped head-shot of the alien was chosen to add impact to the image. Simply overlaying it on top of the stone-effect picture would be OK, but having the creature seeming to erupt out of the screen is much more startling.

embossed, with Greyscale turned

The alien picture was loaded



A Rub thru mode was used to cut the alien

as the secondary image. To get it in exactly the right position the Compose option was used Photogenic's Image menu which presents you with a wireframe representation of the secondary picture which is on top of your existing screen.

Careful positioning of the frame handles gets the picture in the right spot and then activating Blend In from the Compose menu allows you to merge the two drawings together. This is dependent on the brush and mode settings, so using a small brush gives you tighter control. Using the right mouse button restores the main image, whilst the left 'uncovers' the new one.

This made it possible to follow the lines of the alien's head and draw out ragged scratch-like rips on the original stone effect picture. The beauty of Photogenics is that if you make a mistake at this stage. you can always correct it by either Undo-ing your work, or using the mouse to brush back the original areas of the image. The outline was tidied up using the RubThru mode and freehand fill tool.

After fixing the changes, a shadow to the right of the emerging head was drawn using black paint with a 60% transparency, and the filled freehand tool. You



▲ A scanned image of the artist is loaded into the Secondary slot and using Compose is placed in the correct position, top left.



A close up of the work area shows again how a shadow has been added to the right of the head, making it stand out from the background.



A Here's the whole screen after a pink tint has been applied to HR's face, using the freehand to with the Tint mode active and the colour red on.

can see how it forms a perfect tinted shade over the background.

Light grey highlights were also added to the ragged edges where the creature is emerging to give a pseudo 3D effect.



▲ This magnified view shows how the shadow is



▲ Next, in order to give the alien more of a 3D look, a shadow was added beneath the head on the right-hand side.

# sterclass

#### Giger's face

Giger's face started out as a monochrome mugshot. Before being loaded into *Photogenics*, it was cleaned up a little with *Deluxe Paint* and bent slightly to give the impression of a mask.

It was then loaded into Photogenics as a secondary image. Once again the Compose function was used to combine it with the main image, but this time the Brightness key feature was also used to automatically strip out the black background parts of the face image.

A shadow was added to the right of the head, to make it appear raised from the stony surface. Then, using Tan colour and Tint mode with 50% transparency, the face was colourised to separate it even further from the stony background.

#### **Adding text**

Text in *Photogenics* is more complicated than it should be; you have to create it as a separate image, then incorporate it into your work. From the Open as/Other menu, select Text and choose your font, then enter your text.

The first text item was 'Alien Minds', and after applying the blur mode to soften the edges it was tinted green and fixed.

Compose allows you not only to place the text perfectly, but also to re-size it, which is useful when you're working with different sized original images. The text was blended using the Brightness key, so that although it mained green, it took on the

ground

re also

where

give a

unearthly glow associated with the Alien lifestyle.

The other text item is more subtle; I wanted the name Giger to be semi-hidden – not obvious until the picture was studied. The effect I hit on was a kind of stain on the stonework – as if blood had seeped into the absorbent rock.

This was achieved by writing the text as normal, but then applying the Gaussian Blur to it. This takes an age but it feathers the image tremendously so it takes on a soft-edged look. The higher the setting, the more ephemeral the finished image. A setting of nine was used in this case.

Then the text was tinted with a ruby-red colour and rotated it through 90 degrees before composing it on the right of the main picture, using the Brightness key again.

In hindsight, perhaps it's a bit too subtle for a printed image, but anyone taking the trouble to look at the picture closely will be rewarded by the connection.

#### Roughing it up

The image is getting there but it looks to clean – untouched by the ravages of time and the Alien race. To give an aged and battered look, the filled freehand tool was used with a black ink selected, to take out bites of the main picture – chunks which have fallen out.

What better background to show through these holes than Photogenics' Plasma loader? Again, this takes an age to compute on an A1200, but once done you can save it for future use. It is accessed from the Load as/Other Plasma menu item and draws the most electrifying range of colours which blend and meld into each other like a volcanic rainbow.

Once the Plasma had rendered, it was moved into the secondary slot on the bottom'tool bar by clicking and dragging its icon, then composed. As the plasma was rendered in exact-

ly the same screen proportions as the main image, it blended in without any re-sizing. Using the missing black chunks I'd drawn and Fixed before as a guide, I traced around them in filled free-hand RubThru mode to 'uncover' the plasma screen in the right areas.

Note especially how uncovering the Plasma under the creature's jaw has helped create an illusion of background uniformity throughout the drawing.

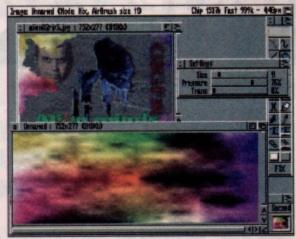
The zoom function came in handy for touching up small areas around the jagged edges, and then a click on the Fix button and the image was complete.

Next month, in our final expert guide we'll be using Forrest Gump as the role model and will be showing you how to create various 'fake' pictures which depict seemingly realistic events (ie Forest Gump meeting President Reagan) by combining lots of images.

**Peter Lee** 



▲ The new text has been rotated through 90 degrees and Composed on screen. Note how Photogenics blends it in over the background.



▲ The plasma screen is placed in the Secondary slot before being exposed using the freehand tool in Rub Thru mode.



▲ Portions at the edge of the image are nibbled away using the freehand fill tool in Paint mode with the colour black.

#### **HR** Giger

HR Giger, probably the leading artist of the fantastic, was born in Chur, Switzerland in 1940. Son of a chemist he studied architecture and industrial design at the College of Arts and Crafts in Zurich, where he still lives now.

It was his spraygun/stencil designs for Ridley Scott's Alien movie which brought him fame and the 1980 Oscar for Best Achievement for Visual Effects.

The computer game Darkseed features digitised versions of his illustrations.



text is created using a Photogenics Loader, alightly and put into the Secondary slot (lowe mady to be Composed onto the main screen.



▲ Here the artist's name has been loaded as Text, and given a very heavy Gaussian blur, making it really ephemeral.

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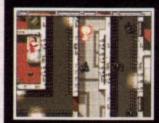
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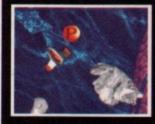
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# Video Ideas

#### Go with a bang!

Fading to black is an easy way to end your productions, but it's not exactly dynamic. Why not go out with a bang? Here's how you can create the sequence below using *DPaint*.

- 1. Set up a blank animation of 60 frames.
- 2. Choose a nice big font and enter the text 'Go Bang!' on the first frame.
- **3**. Cut out the letter G from the text and carefully delete it by lining up the cut out brush directly over the original on-screen letter, and clicking the right mouse button. This right mouse click serves as a position marker for the forthcoming Move operation.
- 4. Select Move from the Animation menu.
- **5**. Enter some random numbers in each of the six main boxes. The numbers you enter in the top row will define how far your brush will move in the three axes (x, y and z). The numbers in the lower three boxes are the angles in degrees at which the brush will rotate.
- **6**. In the box marked Count, enter the number of frames you want the movement to take place over (60 in this case).
- 7. In the box marked Ease In, enter a value of 10, or thereabouts. This will gradually accelerate the movement of the brush over the first 10 frames, which helps to give a more fluid and less robotic movement. The Ease Out box works in the same way, subtly decelerating the movement at the end of the animation. In this case we only want to use Ease In.
- **8**. Click on Preview and you'll see a wireframe representation of your brush being moved according to the settings you entered. This allows you to tweak the settings to get exactly the movement you're after. As the letters are supposed to look like they're exploding away from the centre of the screen, precise alterations aren't really necessary here.
- **9.** When you're happy with it, click on the button marked Draw. The brush will now be drawn into each frame, with the movements and rotations calculated automatically.
- 10. Once it's finished drawing, play the animation to check its progress.
- 11. Now go back to step three and repeat the process with each letter, experimenting with different values in the move requester (keeping the same value in the Count box).
- 12. Move to the first frame of the animation, and add an extra 10 frames. Move to the last frame and do the same again. This will add a slight delay at the start and finish of the animation to help you cue it up when recording to video tape.

## Dynamic titling

We show you how to jump start your credits and titles with some groovy animation sequences.



here's a lot more to video titling than scrolling text. Use your imagination, or just nick our ideas, and your credits and captions can jump into life. *Deluxe Paint* and *Brilliance* are both excellent for creating eye-catching animations from previously drab text. Here are some examples.



## Try these settings

Here are two more animations that can be created using DPaint's Move or Brilliance's Tweening functions, in much the same way as described in the Go Bang! panel. The main difference with these two is that the whole title is moved as one item, instead of each letter individually. This makes rendering the animation a lot quicker and easier.

The settings for each animation are included here, so that you can replicate them both. Play them

them both. Play them back using Ping Pong mode in *DPaint* or reverse play if you have *Brilliance*.



▲ This sequence was generated without the backdrop, which was added later.



▲ Using DPaint's Move requester, each letter can be given a pseudo-random motion path.



▲ The exploding letters is a neat way of exiting from the static titles, with a bit of extra spice.



Now you've no excuse to use that tired old 'fade to black' routine at the end of your films.



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Each word appears in turn from the inky void, and the viewer's eye can't help reading the text.

▲ The trick to producing this effect is to work backwards, from the last frame to the first.

Moving back through the frames, each word is darkened slightly, starting with the last word.

# Fading up from black

This effect was present smooth, and is very easy to achieve. In the final result, word of the title fade up from invisible black to white one other. You need to work backwards for this one. Follow these steps to try it out yourself.

- 1. Select a screen mode that has eight or 16 colours (this will help conserve memory. Set up a range of eight colours that fades from black to white
- 2. Select your form and enter the required text onto the screen using a white me.
- 3. Now define the number of frames in the animation to 60. If using DPaint, select Frames>Set Number from the Anim menu. If using Brilliance, click on the animation icon, then the Set # button. This will copy the original screen into the following 59 fames.
- 4. Move to the last but one frame of the animation, and select the lightest shade of grey as the ink colour (the one next to white). Fill all of the letters in the last word with this shade of grey.
- 5. Move to the previous frame, select the next darkest shade of grey in the palette and fill the letters of the last word with this colour
- 6. Move back another frame, and fill the last word with the next darkest shade of grey. Continue this process until you get to the black colour in the palette. Fill the word again, which will have the effect of deleting it altogether. It's a good idea to turn up the brightness on your monitor while you do this, so that you can see the darker shades of grey.
- 7. Repeat this process for each word, remembering to delete previously faded out words in each frame as you go.
- 8. Finally you will fill the first word with black, and be left with an empty screen. Now duplicate the first and last frames by about 10 frames each, to give you a short 'run in' and 'run out' delay.
- Play the animation.

# Alternative software

Adorage 1.81 was given away with the April 1994 issue of CU Amiga Magazine, and Version 2.0E is the latest release. It makes smooth animations and wipes from IFF images, and is perfect for adding impact to your credits and titles.



Adorage is perfect for those dynamic title wipes, and very simple to use.



Sequences like this are rendered and saver out as animations in Adorage format or as IFF.

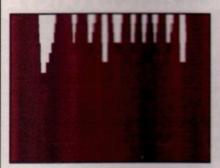


▲ The Adorage animation format often leads to smoother movement than IFF can manage.

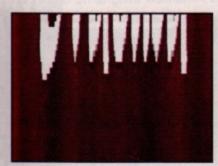


Adorage is a perfect option for anyone who wants good results, but doesn't want any hassle.

VideoTracker 1.2 and 2.0 AGA were included on the June and November 1994 issues of CU Amiga Magazine respectively. Version 2.0 has a routine called Picture Wipe, which is ideal for sliding text and title pages on and off the screen in a number of interesting ways, and it works in realtime too, so it won't take up acres of disk space.



▲ This sequence makes use of the Ficture Wipe routine from VideoTracker 2.



▲ The picture first appears stretched vertically, and slides back to its proper size to fill the screen.



▲ Now you can see the Dracula name appearing, as if it's dripping down the screen.



▲ This method has the advantage of being silky smooth, occupying little memory and disk space.

# Directory Opus



What's on the menu tonight?
Anything you want if you follow this month's menu configuration tutorial for Directory Opus.

es, I'll have a number 17, two 24s and a 34 please. Oh, sorry that was the order for the Chinese I had last night! Hang on while I rummage through my pockets for the other bit of paper with menus on it. Ah, here it is, the DOpus menu configurations.

Following on closely from the last couple of months, we finish off the configuration tutorials with a walk through guide to changing the program menus.

All of the configuration options work in a similar manner and the menus are no different. If you've worked your way through either the April or May tutorials you should be able to change menus with your eyes shut (almost)!

Coming soon!

By now you should be more than a little familiar with the workings of DOpus and its configuration program. From next month we'll be looking at some of the real world uses you can put the program to and showing how to use it in combination with other popular utilities to make using your Amiga simpler, faster and more efficient.

Start off as normal by loading the program and selecting the Configure menu option, then click on the Menus button. You'll now see the various menus appear in the middle of the screen. From here you can change existing options, create new ones, sort them into alphabetical order or delete them. Using the Tools menu you can also change their colour.

Along the bottom of this screen you'll see a range of buttons that allow you to define the type of change to the menus you'll be making. Click on Insert Item and then click on a menu item. A new blank menu line will be inserted on the line before this. In the example here I clicked on the Configure line. From here click on the Paint mode under the Tools menu and then click on the new empty line.

# **Put into action**

A familiar window will appear allowing you to define the actions for your new menu. This is the same as the configuration windows for buttons and works in just the same way. At the top you enter the text that will appear in the menu bar. Here you can also set the foreground and background colour of the menu bar. Below this is a field for entering the keyboard short cut for the menu item. And finally below this

are the fields to let you set the action of the menu item. Like buttons these can be AmigaDos commands, programs, built-in DOpus commands and Arexx macros.

Rather than reinventing the wheel let's create a menu option for running the AmigaDos text editor that we made a button for in the April issue. In the menu name field type in something like 'Editor'. Next up we need to inform the program what commands it should carry out when you click on the menu option.

**New entry** 

Click on the button labelled New Entry. As before, another button to the right and below this button will be enabled. Here we set the type of command to be used, so click on the new button until it shows 'AmigaDos, as we're creating a menu command to launch an AmigaDos program.

Next, click on the magnifying glass next to this. All being well you'll see a requester allowing you to choose the AmigaDos program to be used. If you'd selected a Workbench or ARexx type command you'd now chose one of these instead, but either way you'll see a requester allowing you to pick the program to use. Change the directory to 'Sys:c/', click on the Ed utility and select OK.

The next thing to do is click on

Directory Opus 5

As we went to press we were informed that Directory Opus version 5 is finally available. This is the long awaited update to the version that was cover mounted on the February 1995 issue of CU Amiga Magazine. It's available from Wizard Developments on 01322 272908.

the button containing the two curly brackets '{}'. This lets you pass the names of selected files and directories to the program. Finally we tell *DOpus* what to do before and after the program is run. Again these are the same as when using buttons, and allow you to do things like open a CLI window and move the *DOpus* window to the front etc. These are selected by clicking once on the scrolling list of items next to the word 'Flags'.

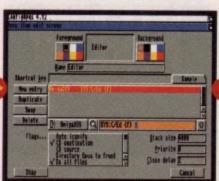
Now click on OK and the following OK buttons until you return to the main *DOpus* working screen. Move the mouse pointer up to the menus, find your new menu line and click on it. The Editor will now load up and run.

You've now mastered the three adding and changing commands in DOpus. Using combinations of these three you should be able to get DOpus performing almost every operation you can do from Workbench and a few more for good measure. Have a go and see what you can get it to do.

**Andy Leaning** 



▲ First we make space for a new menu line. We've inserted one before the Configure option.



▲ Now the new entry is named and created. Ours will load the AmigaDos text editor.



A The new menu ready and waiting to be used. So

The Configure Menu screens, showing the norm

# ProDraw

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Impressed with ProDraw, our May '95 cover disk? Yes. Then you'll be amazed as we reveal the secrets of this superb package in a series of tutorials.

ne of the great things about ProDraw is that you don't need to be a particularly talented artist to create impressive pictures with it. It's so easy to use, you can construct curves, squares and circles just be pulling corner points around – the lines that form the shapes change to fit around the new corner point locations. Because you're not drawing every pixel, and hand drawing every curve, it's far easier to create impressive looking artwork, even if you've got the artistic skill of a drunk chimpanzee!

But in order to do so you need a good understanding of how the program works and how the various drawing tools can be used. So over the next few months we'll be looking at this.

Each month we'll be take a particular program function and use it to create an effect. Doing so will hopefully show you not just how that function works, but also give you lots of ideas to help you create new and exciting artwork.

This month we boot up the series with a look at the Clone function to create a seashell effect.

# Seashore with ProDraw

First turn the Snap-to-grid mode on. This is found in the Preferences requester. Set the distance to .5" for both X and Y dimensions. Now draw a square of 1" by 1" in size, using the grid snapping feature. Having drawn the square, select it and then double click on the Null Pointer Tool and enter the coordinates 3 by 4.

# A1200 Compatibility!

The version of *ProDraw* supplied on our cover disk isn't compatible with the A1200 or A4000. This was clearly marked on the disk.

However if you want to use ProDraw on either of these systems LH Publishing (01908 370 230) have an update disk to allow you to do just this, for small fee. They can also install it on your hard drive, again for a minimal cost. For more details see this month's news pages. Now call up the Clone requester from the Object menu. The Clone function duplicates an object but changes the object in the process. The next time the object is cloned the changes are made again, allowing complex shapes to be built up. In this case we're going to rotate and move the square around a central location, and shrink it a little as well. The net result of these changes will be a seashell effect.

In the requester enter X and Y offsets of .1" and .2". This will move each new square across .1 of an inch and vertically .2 of an inch. Next enter a resizing factor of 99 and 99, which reduces the square's size by 1% each time.

Now we set the centre of rotation to 3.5" and 4.5" respectively. This is the centre of the square we drew and positioned earlier. Finally give it an angle of 5 degrees, and again give it a central rotation point of 3.5" and 4.5". If this is confusing change the requester to reflect the contents of the requester shown in the screen shot seen here. Now click on the OK button and you'll see the square duplicated, but also rotated and moved.

Now press Shift and Tab. Each time you press these keys the clone operation will be carried out using the settings entered in the Clone requester. Do this lots of times and notice how the duplicated squares rotate, resize and move each time, slowly building up a spiral effect. Continue to do this until you've created a large spiral like the one seen here.

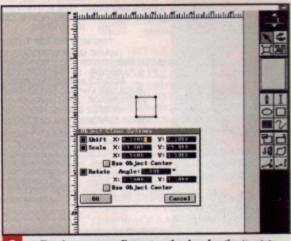
# Let's form a group to make some spirals

Next click on the Group Selection tool and drag a box around all of the objects. Now it's time to add a little colour to our spiral. Select Gradient Fill from the Attributes menu. Set the start fill colour to yellow and click on the OK button.

Finally unselect all the objects and turn the Wireframe mode off to see your seashell drawn in glorious colour.

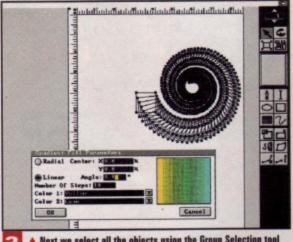
This is just one example of the power of the ProDraw clone function. Try experimenting with it and entering different values – with a little imagination the range of possibilities is endless!

**Andy Leaning** 

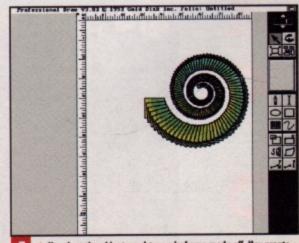


A First draw a square. Now set up the clone function to rotate, reduce and move the square around a central point.

A Now simply by pressing Shift and TAB you can perform the clone function as many times as needed to create the spiral.



Next we select all the objects using the Group Selection tool and then apply a gradient fill to them all. I used Yellow to Blue.



■ Unselect the objects and turn wireframe mode off. Hey presto, the seashell in all its glory. Have a go at creating similar effects!

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AGA DEMOS

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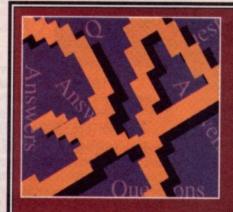
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TONY
HORGAN
Yes, it was tough
being raised by
bits of metal but
it paid off. Look
where I am now.



ANDY ...
LEANING
Me too. Thanks
to my upbringing
I can laugh in
the face of hard
drive problems.

# SCSI confusion



I am new to the Amiga and have run into a few problems that I hope you can help me with.

My first query is about SCSI Interfaces. I want to use them but they have me a bit confused. From what I can gather, SCSI Interfaces can be used in either the PCMCIA slot or in the trapdoor for accelerators etc. Can you explain the difference between drivers, interfaces and devices?

Continuing on the subject of interfaces, if I choose to get the interface to use in the trapdoor, would it be possible to get the Blizzard 1220/4 Turbo with the interface plugs required and then, at a later date, get a hard drive with plugs that could use the same controller?

Lastly, on the subject of interfaces, would it be possible to make my Zappo CD-ROM SCSI compatible? Should I get the interface for my PCMCIA slot?

I also have a problem with picture reception on my TV. Since I got my computer the picture has never been great. I thought that it might be interference from other electrical things in my room so I tried switching them all off but to no avail. I tried changing the settings but that didn't do any good either. Do you think that there could be something wrong with my computer or could it be outside interference?

# S. Stewart Hull

What a lot of questions. Interfaces are the electronics that convert the signals from the Amiga into signals that can be understood by the devices plugged into it. To attach a SCSI compatible hard drive to your Amiga you'll need a circuit that converts the Save and Load instructions from your Amiga into something the SCSI

hard drive will understand. Drivers are the software bit that tells your Amiga how to communicate with the hardware and interfaces connected. If you add new hardware you'll need new drivers so the Amiga can communicate with the new stuff.

The only reason you'd have a SCSI interface is to use a SCSI device. Having a SCSI interface on its own is a bit pointless. However, if you purchased a Blizzard card with a SCSI interface there's no reason why you couldn't attach a suitable SCSI hard drive in future.

There's no way to adapt the Zappo CD drive to SCSI. You're far better off with the Power drive instead. Tell them we sent you. See the next letter for some ideas on your TV interference.

# The fuzz



Please help me. Something's interfering with my Amiga. When I connect it to my TV all I get is a

fuzz, although it worked previously on a friend's 1084 monitor. I saved up for several months to get it and it doesn't work. Please help me, otherwise I've wasted all my money.

# John Priory Liverpool

I'd try fine tuning the TV. Another thought that springs to mind is central heating [strange boy – Ed]. If the interference only happens from time to time it might be the electrical signals generated by the central heating when it comes on, or any other timed electrical systems in your house.

# Two choices



I own an A1200 with a 60Mb hard drive and a PC 1208 with 33MHz FPU and 4Mb RAM. I am think-

ing of buying a CD-ROM drive and

would like some advice on which one to buy so that it will not conflict with my current hardware.

It's a toss up between the Power Computing CD-ROM and the Zappo. Is it true that both of these are CD32 compatible? Also is the the HiSoft Squirrel SCSI Interface able to run CD32 games with a suitable CD drive? If so what drive would I need?

Last of all, will you, in further issues, be reporting as to whether CD32 games will be compatible with CD-ROMs?

# lan Topp Bolton

We reviewed both the Squirrel and Power CD drive in the April issue, giving both the coveted CU Amiga Magazine Superstar award. Both will run many CD32 games. After testing the Power drive we found it to be better than the Zappo drive and have no hesitation in recommending Power Computing's model. We are looking into reporting compatibility of CD games with CD drives, however until Zappo see fit to send us their drive this is difficult.

# Speccy challenge



I have an A1200 and I'm thinking about getting a Spectrum emulator for my old Spectrum games.

Please could you let me know how I go about transferring the games from tape to disk?

# Richard Lewis Gwynedd

Full details of how it's done are giving in the instructions that come with the various emulators. Each works in its own way. A common method is to load the games from tape via a sound sampler and then save them out onto disk. Others require the building of custom

hardware. Either way it's great fun playing those old games.

# Hard up



Recently I sold my A600HD and Bought an A1200HD and have been happy with my decision

thus far. My one problem is that when switching it on it firstly asks for a floppy to be installed and I have to reboot to get the Workbench to load from hard drive. Although this is a piffling thing and only takes a few seconds to overcome, I would prefer it not to ask. Is it possible on an A1200? The startup sequence seems to be in order.

# Nicholas Carr Eastbourne

es

rill

ıg

no

til

There are two possible answers. Firstly Workbench hasn't been correctly installed on the hard drive. To get around this insert your original Workbench 3 disks and run the install program. If after this you're still experiencing problems then you've probably got an IBM hard drive. There's nothing wrong with this, it just takes a few seconds to start up. During the time it's starting up your Amiga has already has a look and sensed no hard drive present and so asks you for the boot disk. This should only happen when you first turn the Amiga on each day.

# **AGA A600**



1. Which is the best method of resetting the Amiga, holding down the two Amiga keys and

the Ctrl key or switching it off and on again?

2. Is it possible to upgrade the A600 to the AGA 1200 or make the A600 AGA compatible?

3. I have a Panasonic colour printer. When I boot the Amiga from Workbench the printer will not print, but it will print when the machine is booted with a different disk. What am I doing wrong?

# Larry Quinn Co. Louth

We recommend using the keyboard to reset the Amiga. This puts less strain on the circuitry inside it, with none of the power surges that can occur by turning the machine on and off. However this won't always wipe everything from memory (viruses for example) or recover from serious crashes. You may need to turn it off

via the power switch in these cases. There's no way to upgrade an A600 to an A1200. Your best bet is to sell your A600 and buy an A1200. As to the printer problem, your Workbench disk has drivers on it to control the printer, and these aren't present on your other disks. You'll need to copy the libraries and drivers from your Workbench disks to these other disks and then boot from them for it to work.

# Secondhand games



We got a secondhand A500 at Christmas. We have a few games but cant afford to buy new

ones. Do you know anywhere on the south coast that sells secondhand games as we can only find places that do SNES games?

Also, could you tell me the best way of cleaning my computer?

# Jonathon Bailey Bournemouth

We don't know of any particular company who sells secondhand games, but car boot sales are often a good place to look, as are jumble sales and small computer dealers. You can regularly clean your Amiga with a small soft brush, to remove dust and other air-bound dirt. More serious dirt can be cleaned up using a non-abrasive house hold cleaner, but avoid any openings, such as the disk drive and interface ports.

# Spare processors



I have decided that my A1200 is not fast enough and to buy a Blizzard accelerator. While think-

ing of this, I wondered what would happen to my 020 processor. I know that the 030 accelerator would take over automatically but it seemed a waste of a perfectly good processor. To have it sitting there doing nothing would be a shame.

Is there any way of using it as an additional processor which carries out specific tasks and is there any software that will do this?

# Paul Palmer Essex

Unfortunately you have little choice. The accelerator upgrades don't physically replace your existing processor, but instead take over from it completely. Even though you have a perfectly good CPU sitting idle, you'd be

hard pressed to find someone willing to buy the old one off you, and if you could they wouldn't pay much for it.

# Fallen pound



I have been using the excellent ProCalc coverdisk since it appeared on the November issue. Can you

tell me how to change the default currency setting from USA \$ to British £. I assume this is possible as your April tutorial is using a £ rather than a \$.

# G Ritchards Liverpool

We've got lots of suggestions, like John Major resigning for starters, but these won't help you much (and this is a computer mag anyway ...). In answer to your particular problem with pound signs, you can set the default currency using the icon's ToolTypes. Add or change the string 'CURRENCY=£' in the Information requester for the ProCalc icon in Workbench.

Alternatively start ProCalc from the CLI using a command line 'Procalc -c£'. Other command line options will be covered in our monthly ProCalc tutorials in the not so distant future.

# Personal development



1. Please could you give me any information on being a systems analyst or systems programmer

as that is what I want to be when I grow up. I have some knowledge of BASIC and have bought Complete Amiga C. It actually teaches you how to program in Pascal and then in C. Is Pascal much different from Basic? Many of my friends say that Pascal is rubbish. Is this true?

# Mohammed Saeed Keighley

Contact your local technical college and ask about City and Guilds courses in this area. Pascal is a more disciplined language than Basic, and is more rigid in its structure. For this reason it's used by many educational establishments as it's good for leaning the fundamentals of structured programming.

However, due its rigid structure it is all that suitable for interactive environments (games, GUI etc) and has lost favour in the 'microcomputer' market.

If you go on a systems analysis course the chances are you'll end up leaning Pascal, Cobol, C and other languages.

# Corrupted



I recently had a hard drive installed on my A1200 but a number of disks don't load. They come

on screen as DF0??? and when I double click on them, it says the icon has no default tool. I tried altering the DosDriver but that has no effect. Also, what is the best way, if any, to run my PC packages like Lotus 123 on my A1200?

# David Scobie Perth

If the disks appear on your
Workbench screen as DF0??? they
are either faulty, games disks or not
Amiga disks. Whatever the case, it's
unlikely you'll be able to install them
on your hard drive. To run PC based
programs on the Amiga you'll need
something that emulates PC hardware – try PC Task from Emerald
Creative tel: 0181 715 8866.

# Grabbed



I have a standard Amiga 1200 without any upgrades and have tried to use the PD utility Quickgrab on

autobooting disks without success. Is it possible to use Quickgrab with autobooting disks and if so, how?

# D Spalding Lowestoft

Quickgrab is a PD utility takes a snapshot picture of the current Workbench screen. You need to get access to Workbench for Quickgrab to work. If your disks autoboot, but have Workbench on them you can use it by copying the program to the disks, putting it in the WBStartup drawer.

# NO SAES PLEASE

We regret that we cannot respond to readers' queries by post or over the phone. Please do not include stamped addressed envelopes with your letters, as we simply don't have time to answer the thousands we receive. Responses are only possible through the pages of the magazine.



# Frequently Asked Questions

# AmigaDOS can be a minefield of a problems but not any more.

# Q. What is it?

A AmigaDOS is a 'disk operating system', the Amiga equivalent of MS-DOS on the IBM-PC. The PC's graphical user interface runs 'on top' of MS-DOS, whilst on the Amiga it runs along-side AmigaDOS.

# Q. What use is it?

onwards, almost all the file and disk management you need to perform can be handled from the Workbench display with pull-down menus and hot keys. However, there are still situations when opening a 'Shell' and entering AmigaDOS commands by hand is essential. In any case, some users prefer using the Shell and find it quicker and more flexible.

# Q. How do I use it?

To enter AmigaDOS commands you need to open a Shell window. The Shell is held in the System drawer, but is so useful many people use the Workbench 'Leave out' menu option to have it permanently on the screen for when they need it.

Clicking on the icon opens up the special Command Line Interface (CLI) called a Shell. From here you can type commands and see their results. You can open many Shell windows at once if you desire. The Shell has many tricks for making AmigaDOS easier to use, such as pressing the up arrow key to redisplay the last command typed.

There are also different Shells available that were not written by Commodore. One of the best is KinCON which automatically tries to finish your filenames, and keeps a record of everything displayed in the Shell window. KingCON is available from any PD library.

# Q. Where can I get the documentation?

then unfortunately none was supplied (a small booklet came with the A4000). Bruce Smith Books series "Mastering AmigaDOS, volumes 1,2 and 3" do the job.

You can get information on most commands by typing them into a Shell window, followed by a question mark (eg. copy?).

# Q. What sort of commands can I enter?

mands are 'cd' for change directory, and 'dir' for displaying a list of the files contained within the current directory. Both can be used with device names (eg. dir df1:).

# Q. Why does it seem so slow?

A. If you are using the Amiga with only a floppy disk drive, AmigaDOS will appear to crawl. This is because many of the commands are stored on disk in the C: directory and need to be loaded before they can be used. Later versions of Workbench come with some of these commands built into the ROM (enter 'resident' to see which ones). You can speed things up with any version of Workbench by manually making certain commands resident (loading them into a special place in RAM). To do this, enter: resident command in a Shell window, replacing the word 'command' with the name of the command you want to make resident. This is handy on systems with just one floppy drive. With a hard drive, AmigaDOS is much quicker than a floppy-only system.

# Q. What exactly are device names?

Amiga has at least one device name. The name is a sequence of letters, or numbers or both, ending with a colon (":"). For example, the internal floppy disk drive is called df0: and the RAM disk (which is always present whether you use it or not) is called ram:. So for example, to see the list of files on a floppy disk, open a Shell and enter:

dir df0:

Using 'Assign' you can temporarily create your own names and refer to them instead. Sometimes the devices are not 'real' (such as the RAM disk), and sometimes a single physical device (a single hard drive for example) contains more than one device (Work: and Workbench: for example).

# Can I use several commands at once?

Yes. Precede each command with run, for example:
run dir df0: run dir ram:

# Can I use batch files like on a PC?

A. Any text file (for example one created with the AmigaDOS

program 'Ed') can be used as a batch (or script) file: in other words, the text in the file will be treated as though it was entered at the keyboard.

To start the file working, either use the 'execute' command like this:

execute my\_text\_file or set one of the the text file's special status bits with the 'protect' command like this:

protect my\_text\_file +S Now the text file is a script, and can be used by entering its name. You can use this feature to make your own AmigaDOS commands. One of the most important script files is the 'startup-sequence' which the Amiga automatically tries to execute when it is switched on. This file contains instructions which set up the way in which the Amiga operates and defines some assigned devices. Another important file is 'user-startup' which you can use to enter your own commands which you want to be executed every time the Amiga is switched on. It is similar to the WBStartup drawer on the Workbench. Both startup-sequence and user-startup are kept in the S: directory.

John Kennedy

# Table of useful DOS commands

Command assign assign avail cd copy dir ed

copy dir ed endshell execute format

info info list newshell makedir resident resident run Purpose
Set up an alternative device
List devices
Display free memory
Change Directory
Copy a file or direction
Directory listing
Edit (or create) text file
Shut down the current CLI
Process file like input
Prepare a disk for use

Display useful facts
Display facts on a device
Display a list of files
Open up another Shell
Create a new directory
List commands "built in"
Add a new command \*
Start command in background

Example assign john: df0: assign avail cd df0: copy ram:john df0: dir ram: ed ram:test endshell execute ram:test format drive df0:name Brian quick ffs noicons info info df0: list df0: newshell makedir ram:Charlie resident resident c:dir pure run dir df0:

\* Note: many commands will not work unless the 'pure' keyword is included. This is because not all commands will work reliably under multitasking conditions when made resident. They can always be copied to RAM disk instead if this is a problem: for example, copy c:copy ram:.

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	29.99	John Barnes European Football 8.99	- 9.99	Skidmarks 2	19.99 19.99	Noddy's Playtime or Big Adventure (3+) 16.99		D013 Predator Damo
ngels	8.99	John Madden Football 10.99		Skitchin	17.99 17.99 17.99	Picture Fractions (7-10) 10.99		Dota Predator Demo
ad Day	10.99	Jungle Strike 17.99 18.95	99 18.99	Sleepwalker	8.99 8.99 19.99	Reasoning With Trolls (5-12)		D014 Safe Sex D015 Steelthy 2 (1 meg)
lows Galactic	19.99	K240 - Utopia 2 19.99		Sty Spy	6.99	Thomas the Tank Engine Collection 12.00		Dots Steamy 2 (1 meg)
Romeo Delta	8.99	KG8 12.99		Snapperazzi	13.99	Thomas the Tank Engine Collection		D016 Jimi Hendrix Slideshow
3	22.99	KICK OFF 3 EUROPEAN CHALLENGE 16.99 19.99	99 99 99	Soccer Kid	9.99 9.99 19.99	Inomas the Tank Engine Paint Package 10.99	-	D017 Kim Wilde Slideshow
	19.99 17.99 17.99	Kid Chaos				HINDON ADVENTURED		D018 Holsten Pils
	19.99 19.99 19.99		99 19.99	Soccer Team Manager	10.99	JUNIOR ADVENTURES		D019 Popeye Meets The Beach Boys
ootball	13.99 19.99			Software Manager	17.99			D019 Popeye Meets The Beach Boys
n Stix & Premier		KIND WORDS 3 (WORDPROCESSOR) 22.99		Soup Trek (The Search For Stock)	19.99	Tidy The House (6-10) 10.99	-	D021 Moonwalker Demo
Bobble	13.99	Kingpin 10.99 12.99	9 12.99	Sooty & Sweep	6.99	Robin Hood (8+) 13.99	-	D022 Mike Tyson (1 meg)
poppie	6.99	Kings Quest 1 or 2 or 3 or 4 or 5 12.99		Space Academy	19.99 17.99	Scrooge - A Christmas Carol (8+)		D024 Terminator
& Squeak	17.99 19.99 19.99	Kings Quest 5		Space Crusade	8 99	Spellbound (7-16)	2 (0.23)	D025 Aliens Demo
	10.99	KNIGHTS OF THE SKY 10.99		Space Quest 1 or 2 or 3 or 4	12.99	The Three Bears (5-10)		DOZE LIFE OF BANK
N Burn	17.99 19.99	Krusty's Super Funhouse	-		8.99 12.99	Wind in The Willows (6+)	-	D026 Life Of Brain D027 The Garfield Slideshow
Sporting Darts	8.99	Last Ninja 2 6.99	-		19.99 19.99	Wizard Of Oz		D027 The Garneld Slideshow
13	19.99 19.99	Leading Lap			17.99 17.99	Wizard Of Oz		D028 Teenage Turtles Slideshow D029 WWF Slideshow
Rubber	16.99 17.99		- 17.99			LOVETICKS 8		D029 WWF Slideshow
	17.99 17.99				9.99	JOYSTICKS &		D030The Gathering GEX
	7.99			Star Crusader	19.99 19.99 19.99	ACCECCONIES		D041 Enterprise leaving Dock
an deline &	6.99	Leisure Suit Larry 1 or 2 or 3 12.99		Starlord	4.99	ACCESSORIES		D042 Girls of Sport
oPay Off		Lemmings 1	19.99	Street Fighter 2	2.99			D043 The Run (1 meg)
OPBY OIL		Lemmings Double Pack	on course		0.99	10 Capacity 3.5" Disk Box	1.99	D044 Star Trek Animations
	22.99	LEMMINGS 3 19.99 19.99		Striker	8.99 19.99	10 Capacity 3.5" Disk Box 40 Capacity 3.5" Disk Box	4.99	D045 Jesus On E's
	19.99	Lethal Wespon 8.99		Strip Pot	19.99	50 Capacity 3.5" Disk Box	5.99	D046 How To Skin A Cat
	12.99 19.99	Links - The Challenge Of Golf 12.99		Stun Runner	6.99	80 Capacity 3.5" Disk Box	6.99	D047 Calendar Girls
	8.99	LION KING 19,99	9		6.99	100 Capacity 3.5" Disk Box	7.99	DOAR Rown Water
Command	4.99				9.99	Analog Institut Adapted	4.99	D048 Rave Vision D049 Techno Warrior
Aaster	6.99	Lombard RAC Rally 6.99			6.99	Analog Joystick Adaptor		DO49 Techno Warrior
Deluxe	12.99	Loom			8.99	Cheetan 120+	7.99	D050 Jesus Loves Acid
ons of Sport	13.99	Lords of the Realm 22.99 22.99		SUBWAR 2050		Cheetah Bug Competition Pro Joyped for CD32	11.99	D051 House Samples
		LOST EDEN 22.99 22.99	9	SUBWAR 2050	24.99 22.99	Competition Pro Joyped for CD32	13.99	D052 Rave Length
onship Manager Italia (M		Lost Vikings	22.99	Super Cars 1 & 2	8.99	Freewheel Steering Wheel Gravis Advanced Switch Joystick	24.99	MUSIC
	16.99	Lost Vikings 19.99	19.99	Super Hang On	6.99	Gravis Advanced Switch Joystick	22.99	M028 Pink Floyd The Wall Remix
	17.99		- 22.99	Super Space Invaders	8.99	Gravis Gamepad	15.99	M029 No Limits
ingine	9.99 19.99	LOVERS GUIDE	- 19.99		9.99 19.99 19.99	Mouse	10.99	MOSO C. Acres
	13.99 13.99	Lure Of The Temptress 12.99			17.99 19.99	Mousehouse	1.99	M030 Cybernex M031 Motiv-8
4Q DH		M1 Tank Platoon 12.99		Super Methane Brothers	8.99 8.99	Mousemat	1.99	MOST MOUVE
Rock 1 & 2	13.99	Manhunter "New York" 12.99			8.99	Mousement		M032 Sound Track Slampler (4 disks)
	24.99	Manhunter "San Francisco"				Joystick Extension Cable	6.99	M033 Sound Effects GAMES GAMES
tion			-	Super rutty		Joystick Y Splitter	4.99	GAMES CONVOCATION
	8.99	Maniac Mansions 10.99			19.99 19.99	Logic 3 Delta Ray Autofire JY154	10.99	GRIA Zaharan

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# Masterclass

# Those seemingly useless drawers in your Ram Disk are in fact vital. Let us explain ...

f you have an Amiga with
Workbench 3.1 (or Workbench 2),
you may have noticed that three
seemingly useless drawers always
seem to appear in the Ram Disk.
You can check for them now: double click on
the Ram Disk and select the "Show... All Files"
option from the Window Workbench menu.

These drawers are set up by the Amiga's Workbench as it loads, and I have often been asked what purpose they serve. Why can't these drawers simply be deleted to gain more free memory? Hopefully, after this Masterclass you'll see that the drawers in the Ram Disk are actually extremely useful and well worth keeping.

The first of these drawers is the T (for temporary) directory. Here programs occasionally store information that they need to keep track of. For example, if you use *Directory Opus* to run image viewing programs, it will often

generate some data and store it in the T directory. The mail program Spot will keep text files in T whilst they are edited. AmigaDOS script files often open files in T whilst they work.

There is nothing to be gained by trying to delete this data or re-directing it to disk: it's stored in RAM simply to speed up operations. It could be stored on disk instead but on a single-floppy system this could bring about a lot of tedious disk swopping and even on a hard drive system it would waste time. Another reason why T is located in RAM is because the information stored there isn't vital to national security by any means, and if the information is lost when the computer is switched off then no-one will cry too much.

# Clipboards

The second drawer is the Clipboard's directory. Whenever you use Copy or Cut from a pro-

gram, it should theoretically store whatever has been copied or cut in a special device called the Clipboard. For example, text editors should store the text cut or copied in the Clipboard. Again, it's a matter of speed and the non-vital nature of the data which makes the Ram Disk the perfect location. But with Clipboards comes the option to share the data between different programs, as data stored there should be kept in a standard format. Unfortunately, not all programs use the Clipboard in the proper way (or at all), but those that do can be particularly useful. Often I find it a great time saver to snip text from an AmigaDOS Shell window and paste it into the text editor Cygnus Ed. With a public domain utility such as PowerSnap it is even possible to paste into file requesters, which is

incredibly useful if you

have a very long path to try and retype several times.

If you keep watch in Clipboards, you won't often see any data actually appearing in the Clipboards directory itself, but if you do you will know what it's for and that deleting it probably isn't a good idea.

# Environmental archives

Probably the most interesting secret RAM drawer is the ENV directory. When the Amiga boots from floppy or hard disk into the Workbench, it has quite a lot of setting up to do, which is one reason it seems to take so long. At one point in the booting procedure, the ENV drawer is created in the Ram Disk. Into this drawer is copied the entire contents of the ENVARC directory, which has been stored on the bootdisk in the path SYS:Prefs/Env-Archive.

ENVARC stores vital information which the Amiga Workbench, and any other programs you may have installed, need to know when started. The Amiga will want to know which screen mode to use, the overscan preference settings, the chosen font, which printer, which colours to use ... all this information needs to be stored somewhere permanently or it would need to be re-set each time the Amiga is switched on.

Other programs will also need to store their various settings and ENVARC provides a neat and sensible way to keep track of all these settings. Each program creates its own drawer inside ENVARC and keeps all its own private data in there, where it knows it can count on it being stored. The program IPrefs in the start-up-sequence looks at the ENV settings to make sure the Workbench is set up properly when the Amiga boots.

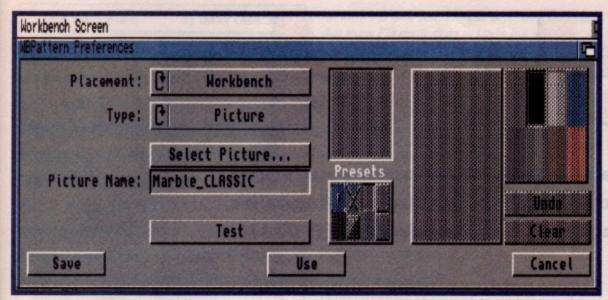
# Revving it up

For speed, the Workbench and other programs normally obtain their settings directly from the ENV directory. When you use a Preferences tool (such as Screenmode) you'll see two options: SAVE and USE. If you select USE, the changes in the settings are copied solely to the ENV drawer. This means the new settings will be available to any programs (or the Workbench) from that time onwards. However, switch the computer off and on again and the changes will be lost: this is because the changes were only stored in memory.

On the other hand, if you use the SAVE option, the settings are altered in ENV as before, but also in the ENVARC directory on the disk. So next time the computer is switched on, the settings are copied from ENVARC to ENV as usual and the new



▲ Each of the preferences tools (here with their MagicWB icons) can either Save or Use the settings made to them.



▲ If you select USE from a preferences requester like this, the settings are written to ENV, in RAM. However, select SAVE and the settings are also stored in ENVARK, which is on disk and therefore 'permanent'.

settings will be in operation.

This means that the USE option is very handy for testing out new preferences, because you can always be sure that to get back to normal all you need to do is reset the computer. Only the SAVE option will make the changes permanent.

If you look in your ENV drawer, you may find drawers which have names similar to your software. For example, I have a Mosaic directory in ENV, which contains my preferences for the Mosaic World Wide Web program. I also have drawers for AdPro, CED and quite a few other programs: all were added automatically at the time the software was installed. It can be informative to look in this file: sometimes if you have deleted a program because you don't use it anymore, you can reclaim some space by removing the entry from the ENVARC directory. Remember that deleting the files in ENV only won't actually do much, as next time the computer is reset the files will be copied back into memory. Only delete a file when you are absolutely sure you don't need it any more. If you are experimenting with AmiTCP and Internet software, you will soon collect a vast repertoire of files in your ENV drawer, and it pays to try and keep track of them all.

In ENV, look out for files such as Kickstart and Workbench. They are created at boot time and contain the release versions of the Amiga operating system in case any programs need to know what type of machine they are running on. Don't bother deleting them: they only take up a few bytes anyway.

# Add your own icons

Other interesting information is kept in the ENV drawer. Have you ever wondered where the default settings for the Workbench icons are set? The images for all the Trashcan, drawers, disks and tools?

When a drawer is created from the Workbench, the icon used is copied from the image contained in ENV:Sys/def\_drawer.info. By saving your own image in this directory with this name, you can alter what happens when you create a new drawer.

The same is true for projects and other files: you can add your own icons by altering these default images. Try saving the ENV rather than the ENVARC version and then

examining the RAM disk drawers to see how the finished drawers will appear.

Each disk can also have a unique icon associated with it. If you look at a directory listing of a hard drive partition, you might see an icon named disk.info, and this is the graphic displayed for the disk. Using IconEdit you can save your own image (which is how I get the comic characters to appear on my Workbench). Like any other icon, you can edit them and re-save them. This will mean that any subsequent drawers created will have the new graphic to go with them. The 'SAVE AS DEFAULT' option in the Icon Editor program saves the new images to ENV and ENV as you would expect.

When saving icons you MUST remember to set their type correctly. You must ensure a disk icon is set to a disk icon and not a drawer, tool or project.

The only really tricky icon to change is the Ram Disk icon. As you might expect, it isn't possible to create an .info file for the Ram Disk as it would vanish as soon as the Amiga was switched off. There isn't a special setting for the Ram Disk in the ENV drawer, and instead you will need to resort to a little jiggery pokery. The simplest way to make sure your Ram Disk has a shiny new icon is to add a line like this:

copy > nil: sys:s/plop.info to ram:disk.info

to your user-startup script file. Thus, when the Amiga boots up, it will execute the user-startup file as per usual and copy the new icon (plop.info) over the Ram Disk's default. Save your own icon called plop.info in the location of your choice, and then add a similar line to your start-up sequence.

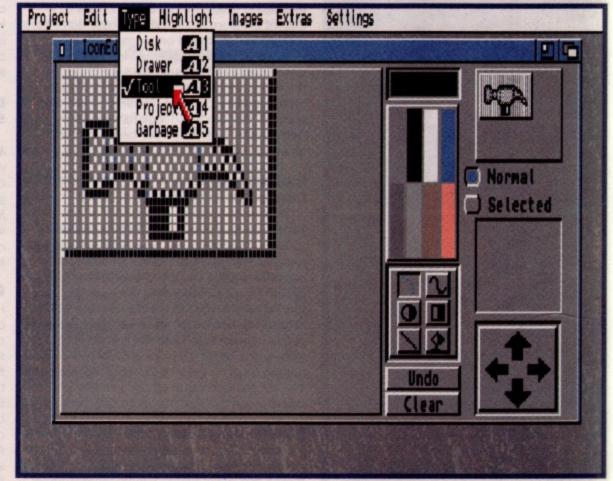
This messing around with the default icon settings and adding lines to the start-up sequence is exactly how Magic Workbench system manages to replace all the boring default icons with the very pretty shaded versions it uses.

# Nice workbench?

If you have created a really cool Workbench environment, please let us see it. We'll publish the smartest looking screen displays here, so others can see what a clever dick you are and can also try and improve their own surroundings.

Let's banish old blue and grey displays for ever! Send an IFF snapshot of your Workbench on disk to the magazine, or by email to cuamiga@cix.compulink.co.uk, or 2:443/13.4. Let's see what you can come up with!

John Kennedy



▲ Remember that each icon MUST have its type set correctly. All drawers must be drawers, all disks set to disks and so on, or odd things can happen.

# Back chat

Want to shout it from the rooftops? Well save your vocal chords. Write it down and send it to CU Amiga Magazine, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

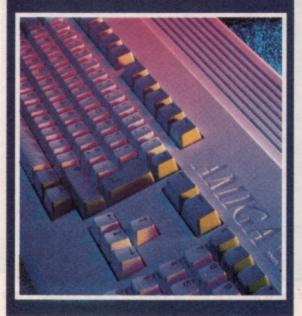
# Where are the music masters?

Recently, I spent a day listening to hundreds of old 64 tunes from SidPlayer. What I want to know is where have all the great musicians gone? Sure, we have people doing fine work for the Amiga. People like Allister Brimble and Chris Hülsbeck are well known and there are plenty of demo scene legends who moved on to producing some classic music for Amiga games but people like Martin Galway, Ben Daglish and Rob Hubbard seem to have vanished.

I would be really interested in hearing some news on such musicians. Perhaps you could do a feature on such a subject as the Amiga has followed in a long line of Commodore machined which make other machines like the ST and consoles look old, sound wise.

# Rafael Dyll Witten, Germany

Where are they now indeed? Rob Hubbard was lured across the pond by Electronic Arts USA headquarters, where he produced some excellent soundtracks (like those for Skate or Die) and some not so excellent ones like the original PGA Tour Golf music. As for what he's up to now, along with the other legends you mention, we're on the case! Watch this space ...



# "Lazy programmers"

In reference to your January issue, Tom Wainwright says that programmers are lazy. I strongly disagree as I am studying to become a programmer and it is hard work. Obviously he hasn't tried programming anything for himself.

Try programming a top rating game, incorporating good graphics, sound effects and good gameplay with an original idea, I don't think you'll be making one in a hurry.

# Martin Towell Silverdale, Australia.

# Offers for all

I think that it is unfair that subscribers are granted special offers like in the March issue. I have a standing order with my newsagent for buying CU and have done ever since I got my Amiga. I expect that many people are the same.

If all people that weren't subscribers stopped buying your mag, you know as well as I do that you'd be out of a job. The cost of everything today, from a bag of crisps to a decent program is such that people don't have a spare £50 to spend on mags in advance.

We are Amiga people and we are also CU contributors and as such we should be given the chance to purchase some of these special offers at a reduced rate. Think of all of your readers. Not the few. I look forward to my CU every month but I don't like being treated as an afterthought.

# R Dickinson Dewsbury

The reason we can run special offers for subscribers is that we do not have to pay newsagents or wholesalers their percentage for selling the magazine. I agree that £50 is a lot to have to come up with in one month, but our discount offer gives you the magazine for 12 months for under £37 and considering that you get hundreds of pounds worth of free software every year that is more than worth while – even at the full price of £3.99 (yes we have just increased the price of CU Amiga Magazine by 1%; the first increase in several years) it is superb value.

# Have a gold star

I have noticed that all your cover disks are write enabled instead of being write protected. This means that when you purchase the magazine you have to put it on to write protect or else you might blank the disk or, heavens forbid, put a virus onto all your other disks.

# Andrew Watkins Gwent

Top marks for observation. We always stress that you must write enable your disk before decompressing it. You're a bit confused about the virus part though. A virus can be spread by a disk whether it's write protected or not, but can only contract one if it's write enabled. All of our cover disks are virus checked anyway.

# Deja vu?

Ever since getting my Amiga, I have bought your magazine. As well as the great tutorials and projects, CU always has really good cover disks with some fantastic utilities. The best thing about them is that they're almost always full utilities, not scaled down versions like other mags have.

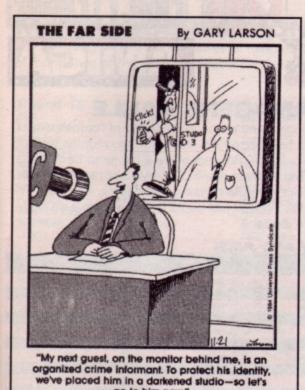
However, CU must have run out of ideas because, unless I am mistaken, the latest offering of *MovieSetter* has already appeared on cover disk 40. It's even the same version. In fact, the only difference is the manual that is included with this issue. Surely CU can come up with other great utilities rather than starting to repeat itself with old material.

# Dennis Whitehall Spennymoor

MovieSetter was one of our most popular cover disks ever, and even over a year after the original cover disk had sold out, we were getting calls asking if it was still available. Plenty of new users have joined the Amiga scene since then, and with the addition of the full manual, we thought it well worth repeating. If you already have the program you should appreciate the manual!

# Game ratings

I have noticed a trend appearing in your game reviews section. Namely, games seem to be overrated too often. I know reviews are personal opinions, but surely the whole CU Amiga team didn't honestly think that FIFA Soccer has "beautiful animation" and gameplay worth 89%? I haven't seen the full Amiga game yet, but going on your cover disk demo, this is complete rubbish! And yes, I did play it on an A1200, with an accelerator. And then what are we supposed to think when you give a game like Skeleton Krew a mark of 83% one month and then review the identical CD32 version



and give it 48%? I've played Skeleton Krew, and agree with the 48% rating. I'm beginning to think you've lost it.

go to him now."

# Brian Cunningham Salford

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You're right, review scores are based on personal preference, and we fully reserve the right to change the score if one reviewer likes or dislikes a game more than another. FIFA is still one of our favourites; Skeleton Krew is not. Simple as that really.

# Mag designer wannabe

I am an eager 16 year old wondering about his future. I would like to be an illustrative designer or graphic designer when I leave school, so I would like to ask Helen Danby what qualifications I would need?

# Christopher Nutt

Well, it's not just a matter of laying out pages you know. You need patience, the ability to stay very, very calm, a good eye for design and colour, and (almost essential in this day and age) a degree in Graphic design. Get yourself into Art College and study hard! (Don't forget to party though).

# More PD music

am a great music fan and there is nothing I like better than kicking on my stereo and reading CU. I am also a great fan of animation and like to scour the ads for good PD and other animations. I think, though that your PD section should cover more music disks and I am desperately looking for an artificial intelligence disk and a speech disk. Please could you suggest some for me even if in the briefest corner of the page.

Also, I think that you should make your reader surveys more fun with strange questons like "Do you own any Metallica t-shirts?" Then you could fill them in with your friends.

Brian Kelleher Co. Cork Resident PD man Tony Horgan says: We've not had that many PD music disks in lately, but whenever we do, the good ones always get a mention. As a music nut myself, it's my fave part of the PD Scene! If any readers want to swop their own tunes with others, send them in to me, quoting an address and price (to cover disks and postage), and we'll include them in the PD pages.

We featured a speech synthesiser last issue (page 87). It's available for £5 from Andrew Fisher, Ingleside, 60 Burgh Lane, Mattishall, E Dereham, Norfolk NR20 3QR. As for AI, we haven't found anything that's any good.

# Game demos

In reference to three of your cover disk demos, namely *Crystal Dragon, Dragonstone* and *The Settlers*, I ask this, can you actually complete them? I have been wandering around the first two for ages, looking for something that I might have missed. I wonder now if, since you give us only the first level, the disks are purposely unsolvable. In reference to the latter cover disk, I have not found a way that this can be done. I am not interested in demos that can't be completed, its a pointless exercise. If you must do cover disks in this way, please say if they are finishable.

# Andrew Williams Luton

We try to bring you the best PLAYABLE DEMOS available, but you've got to remember that they are just that: demos. They are not finished products and are not intended as a replacement for full commercial software. You get to try out brand new games on our cover disks every month, but if you want to play the full game you've got to buy it. Come on, Andrew, we're not being unreasonable here. (PS, Dragonstone has a definite ending, Settlers is never ending (like the game itself) and Crystal Dragon was most of the first level.)

# Fields of compilations

Less than seven months ago I bought Fields of Glory which I was most pleased with. However, I paid almost £36 for it and now the game has been released on the Power Plus label for only £17, almost £20 less than it was selling for a couple of months ago.

While I understand that games will inevitably be re-released as budget titles in the end, I'd have thought that Microprose would have had the decency to wait a while longer, say until the game was a year old or so, before reducing the price.

I, and no doubt, everyone else who bought this game at full price, feel a little cheated knowing that, if we had waited only a couple of months, we could have picked the game up at half price. I will be very dubious about buying full price products in the future.

# David O'Conner Dinnington

You were happy to pay £36 for the game when you bought it, and as you say you were pleased with it, you obviously got your money's worth. If someone else gets the chance to buy it half a year later at a discount price, what's the problem? Does that negate all of those hours you enjoyed playing the game?

# **TEAM TALK**

They say you can tell a lot about a person by their dreams. We had the night thoughts of the CU Amiga team analysed by a self-appointed dream expert to find out just what goes on in their heads.

# **ALAN DYKES**



DREAM: I was attacked by a vampire waitress in an American diner. Eventually I foiled the vampire with a web of pizza cheese.
MEANING: You're afraid to complain in restaurants when served bad food, and wear Spiderman pyjamas to bed.

# **LISA COLLINS**



DREAM: I was offered a recording contract after being heard singing in a gospel choir. Then I was chased across a field by a dog.
MEANING: You crave an appearance on Top of the Pops but fear you may be hounded by sex-crazed fans.

# **ANDY LEANING**



DREAM: I saw a card trick con-man in a pub and tried to expose his methods to the gullible crowd, who couldn't hear me.

MEANING: You have a wonderful secret to tell the world but are frustrated by people's dismissive attitude.

# **TONY HORGAN**



DREAM: I found a beaten up metallic gold Cortina in a market. It had Technics mixing decks installed in the back, but they wouldn't let me buy the decks without the car, which I didn't want. MEANING: You have Technics copies and used to have a gold Cortina.

# **HELEN DANBY**



DREAM: At the supermarket, I noticed Gary Lineker working at the checkout. He told me I'd won a million pounds, and emptied the contents of the till into my shopping bag. MEANING: A combination of optimism from entering the lottery and eating crisps.

# JOHN KENNEDY



DREAM: I was riding my motorbike down the coastal road, when I swerved onto the beach and into the sea, later emerging from the sea into a wonderful new world! MEANING: You are soon to enter a new era of your life, with a mystery destination.

# Sensi Fancy League

Oh yes, yesss, it's a goal! The excitement of it all eh? This month we print the points for the second 14 rounds of matches, along with each player's cumulative goal total and their cumulative points total ... and, as promised, the top 50 managers after the first two months.

# JON HARE'S TEAM

From Sensible Software eh? So how come he didn't pick a better team eh?

Player Name	Position	Code	Value	Goals	Points
Luis Henrique	G	8401	£3M	0	11
Stig Inge Bjornebye	SED MANAGEMENT	1216	£650K	0	-58
Paolo Negro	Date	1112	£550K	94	3
Dave McPherson	D	1812	£1M	I	4 . S
Miguel Lasa	0	1914	£750K		-14
Vladimir Jugovic	M	2127	£1.9M	1	4
Michel	M	1925	£2M	2	
Antonio Conte	M	1027	£950K	0	0
Jason Wilcox	M	0729	£700K	0	
Mark Hughes	A	1431	£3.5M	- 11	33
Sergio Araujo	A	0431	£2M	18	54
Overall total					50

Hmm, another average showing for Jon's team. I hate to say it but it's old Stig again who's causing the problems. But it's not as bad as our own Alan's score.

# **ALAN DYKES' TEAM**

Celturkengjap Wanderers, Alan's team, not only has a stupid name but hasn't had much success either. He has assured us that things will pick up next month. "I spent too little in some positions and just not enough where it really mattered, but it's a game of three halves and it's not all over until Paul Gascoigne injures himself again" he jabbered incomprehensibly yesterday.

Player Name	Position	Code	Value	Goals	Points
Andy Goram	G	1801	£1.1M		21
Jusuf Altintas	D	0914	£500K		-53
Toshiyuki Kosugi	Description	1512	£350K	100	-52
Dennis Irwin	0	1415	£1.9M	3	24
Phil Babb	District	1214	£3.5M	0	-58
Suat Kaya	M	0927	£500K	3	12
Craig Moore	M	1826	£450K	THE STREET	12
Roy Keane	M	1428	£2.75M	8	32
Tetsuya Nakanishi	M	1529	£350K	and the state	12
Ian Rush	A	1231	£4M	19	57
Kevin Campbell	A	0330	£1.6M	12	36
Total	DISTRIBUTE OF STREET				43







# TOP 50 MANAGERS TABLE

This is it, the definitive list of who's who in the world of football management. ? Incorporated has topped the charts for two months running while the current no. two Jigsaw Rangers made a big jump from the bottom 30 last month. The saddest result of all was last month's holders of the number four slot, The Glam Plastic Footballers, who don't appear below because Paul Wilcox just couldn't pick a team with staying power. Will he return though?

MOIRI	'HS 182 (MAY AND J		THE OWNER OF THE OWNER, WHEN	-
POSITION	TEAM NAME	MANAGER	POINTS WEEK 1	POINTS WEEK 2
1 CONTRACTOR	? Incorporated	lan Shaw	144	95
	Jigsaw Rangers	Jim Mackie	89	117
PROPERTY.	Herbie's Experimentals	Herbert Tsyzak	83	112
THE REAL PROPERTY.	Holocaust United	Mark Smith	89	102
	Witton Albion	Steven Witton	82	102
	Sad Old Gits	Stuart Wellard	103	80
lan and	If Only It Was West Ham	Chris Eley	90	92
	NBA Hangover	Karl Jennings	97	85 76
	Martin Cook	Martin Cook	105	
0	I Bet They Drink Carling Black Label	Jeff Bramwell	88	90
11 .	The Death Row Posse	John Porter	118	67
11	Gaetan	James Drolet	110	67
13	Dynamo 37	David Clayton	85	90
14	Dive Bombers II	Steve Welch	93	86
15	Matthew's Mega Team	Justin Matthews	84	85
16	Team Of Doom	Gavin Thomas	91	78
17	Monitor Men	Andrew Thompson	92	76
18	Verucca Mess Utd	Kiarian Coehill	78	88
19	Mauritzalts	S Burgess	81	83
20	The Studdin Lobindikes	Martin Coohill	97	65
21	Nirvana FC	Thimas Billingham	102	60 73
22	Stawell Strikers FC	Peter Garrett	88	
23	McCanns Tartan Bunnets XI	Roddy Morrison	79	82
24	King Of The Potato People	Adam Revell	73	87
25	The Munch A Chicken Charlies	Martin Coohill	74	86
26	God's Impregnable Team	Billy Hemingway	63	96
27	Epton's Eroes	Mark Epton	99	60
28	Kickers FC	Karl Eminson	71	87
29	Gasking City	Julian Gasking	73	85
30	The Penny Drops	Mark Gullen	106	52
31	Elmo's Select Eleven	Ali Bakar	60	98
32	Fidel's Flyers	Nicholas Castro	96	62
33	Mr JM Pickett	Mr JM Pickett	79	77
34	THE RESERVE OF THE PARTY OF THE	Ray Ward	90	65
35	Triesland	Sipke Wiebe Van	86	69
36	Banana Split	Carl Bravo	77	78
37	Ruislip Rangers	Steven Lewis	82	72
38	West Meatloaf	Daniel Berkeley	82	72
39	40-02-50 11000063	Bruce Warberton	86	68
40	Graeme's Greats	Graeme Norton	74	80
41	Kelly's Heroes	Justin Kelly	85	68
42	Kirkwood Rovers	Gary MacIntosh	99	54
43	Waterfront Town FC	Scott Robertson	72	80
44	Andy's A-Team	Andrew Clarke	98	54
45	SWos United	Darren Thomas	90	61
46	Budmore AFC	Gile Cudmore	81	70
47	Ash Sports Elite	Ashley Roleston	86	64
48	Theimy's Wonders	Mark Thiem	87	61
49	U Better Du Good	David Tiemroth	91	57
50	Robo's Red Army	Philip Jerrires	84	THE COLUMN

# TONY HORGAN'S TEAM

Tony's Spacemen United is definitely one of the all time great teams: not! Oh how the mighty have fallen. Ian Shaw is a football god and no mistake.

Player Name	Position	Code	Value	Goals	Points
Oliver Khan	6	0601	£1.3M	5	
Henning Berg	D	0712	£800K		-38
Steve Bould	D	0313	£1M		-12
Norman Mapeza	0	0912	£550K	0	-53
Danny Blind	0	0213	£750K	0	
Paul Gascoigne	M	1128	£7.5M	10	40
Suat Kaya	M - Landson	0927	£500K	3	12
Secretario	M	0826	£850K	2	8
David Hillier	Management	0326	£550K	3	12
Alain Sutter	A	0631	£1.9M	15	45
Ljubinko Drulovic	A	0831	£950K		27
Total					37

# **MATCH SCORES MONTH TWO**

The following are the full results of all matches played in the 14 rounds of month two of the Sensible Soccer Fancy League.

GOALS SCORED AND PLAYER SCORES MONTH TWO
This month we not only bring you the total amount of goals scored by

Round 15		Round 22	
AJAX 1 GALATASARAY 2	REAL MADRID 1 NEWCASTLE 3	GALATASARAY 1 RIVER PLATE 2	AJAX 2 RANGERS 3
RANGERS 0	PARIS 1	LIVERPOOL 1	MUNICH 3
RIVER PLATE 0 MUNICH 1	AC MILAN 1 JUVENTUS 3 LIVERPOOL 1	FC PORTO 1 TOTTENJAM 2	BLACKBURN 1 MAMELODI 1
ATLETICO MINEIRO 5	LIVERPOOL 1	SAMPDORIA 8	ATLETICO MINERO 1
ARSENAL 6 FC PORTO 0	BLACKBURN 1 MANCHESTER 0	ARSENAL 2 Real Madrid 0	MANCHESTER 1 NEWCASTLE 1
MAMELODI SUNDOWN 0	NEGUYA 1	PARIS 1	AC MILAN 3
BARCELONA 2 LAZIO 3	TOTTENHAM 8 SAMPBORIA 1	JUVENTUS 2 BARCELONA 3	NEGUYA 2
	SAMPOONIA I	BANGELUNA 3	LAZIO 0
Round 16 AC MILAN 2	AJAX 5	Round 23	
PARIS 3	GALATASARAY 2	RANGERS 2 RIVER PLATE 0	AJAX 1 GALATASARA 0
MANCHESTER 3 RIVER PLATE 0	RANGERS 1	BLACKBURN 2	MUNICH 2
LAZIO 2	ARSENAL 0 MUNICH 4	FC PORTO 1 ATLETICO MINERO 3	LIVERPOOL 0 MAMELODI 0
TOTTENHAM 3	LIVERPOOL 1	SAMPDORIA 3	TOTTENHAM 2
SAMPDORIA 3 NEWCASTLE 1	BLACKBURN 0 FC PORTO 1	NEWCASTLE 0 REAL MADRID 1	MANCHESTER 2 ARSENAL 1
BARCELONA 4	MAMELODI 2	NEGUYA 2	AC MILAN 4
JUVENTUS 2 REAL MADRID 2	ATLETICO MINEIRO 3 NEGUYA 0	LAZIO 1 BARCELONA 4	PARIS 1 JUVENTUS 1
Round 17	PARIS 0	Round 24	RIVER PLATE 1
GALATASARAY 1	AC MILAN 3	RANGERS 1	GALATASARAY 0
RANGERS 1 JUVENTUS 0	ARSENAL 1 RIVER PLATE 1	MUNICH 1	FC PORTO 8 LIVERPOOL 1
MUNICH 2	BARCELONA O	BLACKBURN 3 MAMELODI 1	SAMPDORIA 0
LIVERPOOL O BLACKBURN O	SAMPDORIA 3 NEWCASTLE 2	ATLETICO MINERO 0 MANCHESTER 1	TOTTENHAM 8
FC PORTO 0	MADRID 0	NEWCASTLE 1	REAL MADRID 1 ARSENAL 1
MAMELODI 1 NEGUYA 1	LAZIO 1 TOTTENHAM 0	AC MILAN 1	JUVENTUS 0
ATLETICO MINEIRO 1	MANCHESTER 1	PARIS 2 LAZIO 3	BARCELONA 1 NEGUYA 1
Round 18		Pound 25	
NEGUYA 0	AJAX 8	MUNICH 1	AJAX 8
GALATASARAY 0 LAZIO 0	JUVENTUS 2	LIVERPOOL 1	GALATASARAY 1
BARCELONA 3	JUVENTUS 2 RANGERS 0 RIVER PLATE 1 ATLETICO MINEIRO 1 LIVERPOOL 0 MAMELODI 0	BLACKBURN 2 FC PORTO 1	RANGERS 3 RIVER PLATE 1
MUNICH 4	ATLETICO MINEIRO 1	MANCHESTER 1	MAMELODI 1
MANCHESTER 4 BLACKBURN 0	MAMELODI O	ARSENAL 2 NEWCASTLE 0	TOTTENAM 1 ATLETICO MINERO 2
TOTTENHAM 1	FC PORTO 0	REAL MADRID 6	SAMPDORIA 1
SAMPDORIA 1 NEWCASTLE 1	ARSENAL 1 PARIS 0	AC MILAN 0 JUVENTUS 1	LAZIO 2 Paris 1
REAL MADRID 2	AC MILAN 3	NEGUYA 2	BARCELONA 3
Round 19		Round 26	
AJAX 2	JUVENTUS 2	AJAX 2	LIVERPOOL 1
NEGUYA 1 RANGERS 3	GALATASARAY 0 BARCELONA 0	GALATASARAY 2 RANGERS 2	MUNICH 3 FC PORTO 1
RIVER PLATE 8	LAZIO 2	RIVER PLATE 1	BLACKBURN 0
SAMPDORIA 0 ARSENAL 0	MUNICH 0 LIVERPOOL 1	MAMELODI 2 TOTTENHAM 1	ARSENAL 1 MANCHESTER 1
REAL MADRID 6	BLACKBURN 0	ATLETICO MINERO 1	REAL MADRID1
FC PORTO 2 PARIS 1	ATLETICO MINEIRO 1 MAMELODI 1	SAMPDORIA 5	NEWCASTLE 0
TOTTENHAM 0	NEWCASTLE 1	BARCELONA 3 NEGYUA 1	AC MILAN 0 PARIS 3
AC MILAN 1	MANCHESTER 2	LAZIO 5	JUVENTUS 0
Round 20		Round 27	
LAZIO 1 BARCELONA 1	AJAX 1 GALATASARAY 8	AJAX 2	BLACKBURN 0
RANGERS 1	NEGUYA 2	GALATASARAY 2 MUNICH 2	FC PORTO 2 RANGERS 3
MANCHESTER 3	RIVER PLATE 1	LIVERPOOL 3	RIVER PLATE 6
AC MILAN 3 LIVERPOOL 3	MUNICH 1 NEWCASTLE 3	MAMELODI 1 AC MILAN 4	NEWCASTLE 0 TOTTENHAM 1
ATLETICO MINEIRO 2	BLACKBURN 0	PARIS 2	ATLETICO MINERO,2
FC PORTO 1 MAMELODI 3	SAMPDORIA 2 JUVENTUS 1	NEGUYA 2 JUVENTUS 3	SAMPDORIA 3 MANCHESTER 3
TOTTENHAM 1	REAL MADRID 1	ARSENAL 1	LAZIO 0
ARSENAL 4	PARIS 2	BARCELONA 2	REAL MADRID 0
Round 21		Round 28	
AJAX 3 GALATASARAY 8	BARCELONA 1 LAZIO 1	FC PORTO 8 BLACKBURN 1	AJAX 3 GALATASARAY 0
JUVENTUS 0	RANGERS 1	LIVERPOOL 0	RANGERS 5
RIVER PLATE 2 PARIS 1	NEGUYA 2 MUNICH 3	MUNICH 3 REAL MADRID 3	RIVER PLATE 8
LIVERPOOL 0	REAL MADRID 6	TOTTENHAM 2	MAMELODI 1 Paris 2
BLACKBURN 1 MAMELODI 0	TOTTENHAM 2 FC PORTO 0	AC MILAM 1	ATLETICO MINERO 1
ATLETICO MINERO 2	ARSENAL O	JUVENTUS 0 MANCHESTER 3	SAMPDORIA 5 NEGUYA 8
SAMPDORIA 1 NEWCASTLE 0	MANCHESTER 3	ARSENAL O	BARCELONA 0
ALTIGNOILE U	AC MILAN 0	LAZIO 1	NEWCASTLE 2

each player but	also their	points to	otals for this	month and cu	mulatively
AC MIN DAI HTDIN) MANIE	POSITION	CODE	CUMULATIVE NO OF GRALS	POINTS MONTH 2	COMBLATIVE
AC MILAN (ITALY) MAME 1. Sebastiano Rossi	130111011	9101	HE UT GUNLA		-16 -32
2.Christian Panucci 3.Franco Baresi		9112 9113		-12	-15
3. Franco Baresi 4. Alessandro Costacurta 5. Paulo Maldini 6. Roberto Donadoni 7. Romatio Alberto		8114		-12	-16 -23
6.Roberto Donadoni		8115 8126	2	1	-11
7.Demetrio Albertini 8 Marcel Bessilly		9127 9128	3		-12
9.Gianluigi Lentini	Ü	8129			28 24 38
7. Demotrio Albertini 8. Marcel Desailly 9. Gianlaigi Lentini 10. Dojan Savicevic 11. Alessandre Melli		8138 8131	13 15	24 11	35
			10 10 to 10		
AJAX (RDELAND) 1.Edwin Van Der Sar		8291			
2. Michael Reiziger 3. Danny Blind 4. Frank De Beer 5. Finidi George 6. Frank Rijkaard 7. Edgar Davids 8. Jari Utmanen 9. Marc Overmars 14. Patrick Righward	0	8212	i	1	4
4.Frank De Boer		8213 8214		1	4
5. Finidi George		8225	2	•	
7.Edgar Davids		0226 0227	2		12 8 24 32 42 51
8 Jari Litmanes		9228		19	24
TANK BOILD UNDER STREET	Ā	0228 0229 0230	14	13	42
11.Rosald De Boer	A	8231	17	18	51
ARSENAL (ENGLAND) 1.DAVID SEAMAN					
		8381 8312			
2.Lee Bigos 3.Steve Bould 4.Tony Adams 5.Nigel Winterburn 6.David Hillier 7.John Jenson 8.Stephen Schwarz 9.Paul Merson 10.Kerin Parachell		8313			-12
4. lony Adams 5. Nigel Winterburn		8314 8315	1	4	-8 -12
6.David Hillier	M	8326	3		12
B.Stephen Schwarz		9327 9328			32
9. Paul Merson	M	8328	5		20
10.Kevis Campbell 11.Jan Wright		8338 8331	12	12 71	36
ATLETICO MINEIRO (BRAZI 1. Luis Honrikus 2. Andro 3. Noto	4	0401		10	11
2.Andre		0412 0413			•
4. Paulo Roberto 5. Allosandro	i	8414		1	
5.Allesandre 6.Veldir		0415 8426	1		5
6. Yaldir 7. Cristavo	ü	8427	1	1	12
8.Carlos 9.Tononho Perreira		8428 8429		12	24
18.Resaldo	Ā	8430	i	1	18
11.Sergio Araujo		9231	13	24	54
BARCELONA (SPAIN)					
1.Carlos Busquets 2.Albert Ferrer 3.Rouald Kooman 4.Abolarde Fernandez		9501 9512		;	20
3.Rouald Koemas		8513		ž	
		8514 8525	i i		16 20
6.Miguel Angel Nadal	N.	0526 0527 0528	3		12 12
8.Jose Maria Bakero	ü	8528		24	36
5. Miguel Angel Nadal 7. Josep Bartisla 8. Jose Maria Bakero 9. Serpi Barjuan 10. Hristo Stoichkov		0529 0530	15	24	36 16 45 33
11.Romario	i	6531	ii	18	33
BAYERN MUNICH (CERSON)					
BAYERN MUNICH (GERMAN 1. Oliver Idian 2. Oliver Krouzer 3. Lother Matthews		8681 8612		1	
3.Lother Matthews		8612			1
4.Thomas Heimer 5.Jorginho		8614 8625			
6.Christian Norlinger		8626	1	12	16
6.Christian Norlinger 7.Markus Schupp 8.Mehmet Scholl		8626 8627 8628	1		12
9. Christian Zeine		9628	1	12 28	12 28
10 Jean-Pierre Papin 11 Alain Sutter	1	0629 0638 0631	10	21 24	38 45
			15		
BLACKBURN ROVERS (ENGL 1. Tim Flowers 2. Henning Berg 3. Tony Gale	AND)	8791		-23	
2.Henning Berg		8712		-25	-34 -38
4.Colin Hendry		8713 8714		-25 -25	-38
4. Colin Hendry 5. Grassee Le Saux		8715		-25	-31
5.Stuart Ripley 7.David Batty		0726 0727			
8.Tim Sherwood	A Maria	8728	100		
9.Jason Wilcox 18.Chris Sutton		0728 0730	1		
11.Alan Shearor	A	0731	13	ü	39
FC PORTO (PORTOGAL)					
1.Vitor Baia 2.Jone Pinto		8801 8812		1 3	
3.Semede		8813		3	
4.Aloisio		8814			
The second secon	THE RESERVE AND ADDRESS OF THE PARTY NAMED IN				

		-			-			cumm star	MANAGEMENT OF	CUMULATIVE
AC MILAN (ITALY) NAME	POSITION	CODE	CUMULATIVE NO OF GOALS	POINTS MONTH 2	POINTS	. AC MILAN (ITALY) NAME POSITION	CODE	NO OF GOALS		POINTS
5.Rui Jorge	D	0815	2	1	-1	3.Darren Peacock B	1613	0	3	-11
6.Secretario	M	0826	2			4.Philippe Albert D 5.John Beresford D	1614 1615			-11
7.Vasili Kulkov 8.Rui Barros	No.	0827 0828			12	6. Ruel Fox M	1626	3	4	12
9.Emerson	M	0829	2	i	8	7.Barry Venison M	1627	3	4	12
18.Sergei Yuran	A	0830	5	1	15	8.Robert Lee M 9.Scott Sellars M	1628 1629		12	15
11.Ljubinko Drulovic	A	0831		15	27	10.Peter Beardsley A	1630	i		24
GALATASARAY (TURKEY)						11.Andy Cole A	1631	12	18	36
1.Gintaras Stauce	G	0901		-20 -21	-50					
2.Norman Mapeza	0	0912		-21	-53 -53	PARIS ST-GERMAIN (FRANCE)  1.Bernard Lama  G	1781		-19	-48
3.Mert Korkmaz 4.Yusuf Altimtas		0913 0914		-21 -21	-53	2.Jose Cobes D	1712		-20	-42
5.Bulent Korkmaz		0915	2	-21	-45	3.Alain Roche D	1713	1	-20	-38 -42
6.Okan Buruk	M	0926	1	4	4	4.Ricardo Gomes D	1714		-20 -20	-42
7.Suat Kaya	M	0927 0928			12	5.Patrick Colleter D 6.Daniel Brave M	1715 1726		4	
8.Tugay Kerimoglu 9.Hakan Sukur		0939	2	3	6	7.Paul le Guen M	1727	5	4	16
10.Kubilay Turkyilmaz	Ä	0930	6	6	18	8. Vincent Guerin M	1728		12 16	20 24
11.Saffet Sancakli	A	0931	12	12	36	9.David Ginola M 10.Valdo M	1729 1720	10 2	16	40
JUVENTUS (ITALY)						11.George Weah A	1731	14	21	42
1.Angelo Peruzzi	G	1001	0	-28 -29	-34					
2.Ciro Ferrara	D	1012	0	-28 -29	-39 -39	RANGERS (SCOTLAND)  1.Andy Goram G	1801			21
3.Luka Fusi 4.Jurgen Kohler		1013 1014		-29	-39	2 Dave McPherson D	1812		i	
5.Moreno Torricelli		1815	i	-28	-39	3.Alan McLaren D	1813	2		17
6.Angelo Di Livio	M	1026	9		2	4.Basile Boli D 5.David Robertson B	1814 1815			13 17
7.Antonio Conte 8.Paulo Sousa	Marie Marie	1027 1028				6.Craig Moore M	1826			12
8.Paulo Sousa 9.Didier Deschamps	T T	1028		i	1	7.Stuart McCall M	1827	2	A CAN THE SE	1
18.Roberto Baggio	A	1036	11	18	33	8.Pieter Huistra M	1828	3	12	12
11.Gianluca Vialli	A	1031	16	24	48	9.Brian Laudrup M 10.Ally McCoist A	1829 1830		16 12	21
LAZIO (ITALY)						11.Mark Hateley A	1831	19	33	57
1.Luca Marchegiani	G	1101		5	8					
2.Paolo Negro	D	1112			1	REAL MADRID (SPAIN)	1901		-1	-12
3.Roberto Cravero	U	1113	MARK COLD		1	1.Francisco Buyo G 2.Quique D	1912	1	4	-18
4.Jose Chamot 5.Giuseppe Favalli		1115	3	i	11	3.Rafael Alcorta D	1913		-4	-18
6.Roberto Rambaudi	M	1126	6	12	24	4.Miguel Lasa D	1914	1	4	-14
7.Aran Winter	M	1127			40	5.Michel M 6.Fernando Redondo M	1925 1926			
8.Paul Gascoigne 9.Roberto Di Matteo		1128 1129	10	12	12	7.Fernando Hierro M	1927		i	0
10.Giuseppe Signori	A	1130	15	30	45	8.Michael Laudrup M	1928	6	16	24
11.Alen Boksic	A	1131	10	9	30	9.Rafael Martin Vazquez M	1929 1938		21	16 36
ANTORON PROTEIN						18. Jose Emilio Amavisca A 11. Ivan Zamorano A	1931	12 16	30	48
LIVERPOOL (ENGLAND)  1. David James	G	1201		-41	-53	11.Ifon Zonoviano				
2.Rob Jones 3.Neil Buddock	Ö	1212	i	-42	-58	RIVER PLATE (ARGENTINA)				
Contract House Contract Contra	0	1213		-42	-58	1.Leonardo Aguirre 6 2.Ricardo Altamirano D	2001 2012		-6 -10	-20 -27
4.Phil Babh 5.John Scales		1214 1215		-42 -42	-58 -58	3. Guillermo Rivarola D	2013	i	-10	-27
6 Stin Inne Biornbye		1216		-42	-58	4.Roberto Clerico D	2014	0	-10	-27
6.Stig Inge Bjornbye 7.Steve McManaman	M	1227	0	0		5.Diego Cocca D	2015	0	-10	-27
8.Jan Molby	M	1228				6.Leonardo Astrada M 7.Julio Toresani M	2026 2027			i
9.John Barnes 10.Robbie Fowler		1229 1230			24	8.Berti M	2828	2		8
11.lan Rush	Â	1231	19	27	57	9.Ramon Medina Bello A	2039	4		12
						10.Alejandro Aranda A 11.Walter Silvani A	2030 2031	14	24	27
MAMELODI SUNDOWN ( 1.Craig le Grange	SOUTH AFRICA)	1301			-18	11.Marter Suvani	2031			
2. Samuel Kambule		1312		4	-24	SAMPDORIA (ITALY)				
3 Johannes Modau	D	1313			-24	1.Walter Zenga G 2.Moreno Mannini D	2101 2112			
4.Lucky Molefe 5.Joas Magolego 6.Ergest Chirwali		1314 1315			-24 -24	3.Riccardo Ferri D	2113	1	4	1
6.Ernest Chirwali	M	1315	2	4	8	4.Pietro Vierchowod D 5.Sinisa Mihajlovic D	2114	1	1	
7.Rabbie Moripe	M	1327	2	4	8	5. Sinisa Mihajlovic D	2115			II.
8.Moses Morodi	M	1328	3	12	12	6.Attilio Lombardo M 7.Vladimir Jugovic M	2126 2127			
9.Zane Mosa 10.Lovemore Chafunya		1329 1330			24	8.David Platt M	2128		20	35
11.Bennett Masinga	A	1331	6	12	18	S.Alberigo Evani M 10.Ruud Gullit A	2129			19
						10.Ruud Gullit A 11.Roberto Mancini A	2130 2131	18	30 15	54 39
MANCHESTER UNITED () 1.Peter Schmeichel	EMGLAND)	1401			22	11.houditu mancim	4131			
1.Peter Schmeichei 2.Paul Parker		1412	i	1	12	TOTTENHAM HOTSPUR (ENGLAND)				
3.Steve Bruce	0	1413		the state of	16	1.lan Walker 6	2281 2212		-12 -14	-21 -22
4.Gary Pallister		1414 1415			16 24	2.David Kerslake D 3.Kevin Scott D	2212		-14	-22 -26
5.Dennis Irwin 6.Andrei Kanchelskis		1426	,		12	4.Sol Campbell D	2214	0	-14	-26
7.Paul Ince	M	1427	0	0	0	4.Sol Campbell D 5.Justin Edinburgh D 6.Darren Anderton M	2215		-14	-26
8.Roy Keane	Market	1428		28	32 24	5.Darren Anderton M 7.Gheorghe Popescu M	2226	,		
9.Ryan Giggs 10.Eric Cantona		1429	13	15	39	8.Jason Dozzell M	2228		8	24
11.Mark Hughes	à	1431	ii	18	33	9.Ilie Dumitrescu M	2229		12	32 18
						10.Jurgen Klinsmann A 11.Teddy Sheringham A	2230 2231	12	24	36
NEGUYA GREMPAS (JAP 1.Dick Havenaar	AN)	1501		-1	-52	11-1cony Sectinguan	100			
2.Toshiyuki Kosugi	i	1512		-11	-52 -56	Nove Brown	h			
3.Garca	D	1513		-11	-56 -52	Next Mont				
4.Toshihisa Iljoma 5.Hisataka Fujikawa	The state of the s	1514 1515		-711	-52	OK, we're nearly	ther	e. One n	nore mont	h to go.
6.Jorginha	M	1526	2	4	8	Will lan Shaw re				10742
7.Makoto Yonekura	M	1527	j							
8.Elivelton 9.Tetsuya Nakanishi	M	1528 1529		12	20 12	Incorporated or	will J	im Mac	kie's Jigsa	w
10.Gary Lineker		1530	2	6	6	Rangers overtak				
11.Shigeo Sawairi	A	1531	12	18	36					
						come in with a l	ast m	inute bu	ırst of	
NEWCASTLE UNITED (EI	MGLAND)	1601			-2	energy and beat	the I	ot of the	em? Find	out who
2.Marc Hottiger	D	1612		3	-11			or or the		

wins the trip to Europe next month.



# **FEBRUARY 1995**

- ON THE DISKS: Directory Opus 4, Crystal Dragon demo and some handy utilities.
   FEATURE: Make your Amiga Faster for under
- INSIDE: Amiga v PC v Mac, Shadow Fighter, Kick Off 3, Lemmings III, MKII players guide.



# **MARCH 1995**

- ON THE DISKS: Modeler 3D, Easy Ledger demo, Valhalla Before the War demo.
- FEATURE: Hook up your hi-fi and video to you Amiga for brilliant sound and vision.

   INSIDE: CD-ROM reviews, Frontier 2, Blizzard Accelerator, Frontier 2, Bloodnet, Skeleton Krew, Sensi Fancy League.

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# **APRIL 1995**

- ON THE DISKS: MovieSetter, clip art and Fifa International Soccer demo. PLUS free MovieSetter manual.
- FEATURE: Animation made easy.
   INSIDE: Power CD-ROM, PD Special, ATR, Turbo Trax, Dawn Patrol, Super League Manager, Baldies preview.



- MAY 1995
   ON THE DISKS: ProDraw 3 (all non AGA Amigas), OctaMED 6 and Baldies demos.
- FEATURE: Ten printers reviewed, rated
- and recommended.

  INSIDE: ECTS report, Brutal Preview, DPaint, Personal Paint, Photogenics and Brilliance compared, eight CD-ROMS reviewed.

# **MAY 1994**

ON THE DISKS: OctaMed 4 ples, fonts and o SOLD OUT

an exclusive review of K240 — Utopia 2 plus Toby Simpson's sequel to Diggers!

ON THE DISKS: VideoTracker do samples, music track demos of To

SOLD OUT arcs and

Animation Studio, Arcade Pool, and part one of our solution to Beneath a Steel Sky.

# **JULY 1994**

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- ON THE DISKS: GB Route, plus playable demos of Elfmania and Valhalla.
- FEATURE: Upgrading Your Amiga INSIDE: DPS Par Card, Montage, Perger and HiSoft Basic 2, Banshee, Valhalla, Elfmania and a first look at Scavenger.

# AUGUST 1994

Squad and Kick Off 3.

- ON THE DISKS: Art School package Turbo, plus a playable les FEATURE: Music
- SOLD OUT Morph, low cost ans. Ishar 3, On The Ball, Putty

# SEPTEMBER 1994 ON THE DISKS: DirWork 2, Music File

- Converter, plus a demo of The Clue.

  FEATURE: 3D Special.

  INSIDE: Brilliance 2, Imagine 3, Theme
  Park, Universe, Kid Chaos and Dreamweb.

# OCTOBER 1994

- ON THE DISKS: DPaint 5 demo, Realtime Effects Generator 1.5, Stereogram 3D picture maker and Dragonstone demo.
- FEATURE: Storage special.
   INSIDE: Over 50 software and hardware products, Ruff 'n' Tumble, Litil Divil, Detroit.

# **NOVEMBER 1994**

- ON THE DISKS: ProCalc v2 full program, VideoTracker 2, Football Glory demo.

  FEATURE: 101 amazing tips!

  REVIEWED: Guardian, Robinson's Requiem,
- and Super Stardust.

- ON THE DISKS: X-Cad Design, Christmas
  Theme Park demo and Super Stardust tun-
- nel level demo.

  FEATURE: Word Processing guide.

  REVIEWED: Rendale 9402 Genlock, Bass Station, Powerdrive, Mortal Kombat 2.

JANUARY 1995
ON THE DISKS: ComicSetter
Flight of the American SOLD OUT

soccer, RoadKill CD32, Beneath a Steel Sky CD32.

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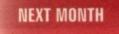
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# MAGAZINE

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# Clarissa V2.0

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# **Directory Opus 5**

The most important upgrade in Amiga history? We review the first full version available in the UK.

# LightWave 4 Vs Cinama Vs Imagine

Can the new LightWave still cast shadows over the opposition? We test it alongside Cinama, a new 3D rendering program from Germany and take a look at the next version of Imagine.

# And more!

# **Games:**

- Final Over Team 17's cricket sim
- Virocop Warner Interactive's bouncy robot
- Front Lines Impressions futuristic hex strategy sim
- Player Manager 2 Even more football management fun
- Baldies they just missed this issue but the bonce boys will



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# and ...

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# Expand or die

hine, whine, whine. As Andy Leaning pointed out in his Get Serious editorial last month, owners of unenhanced Amigas have been complaining about not being unable to use applications like Photogenics to the full, as they require extra RAM, accelerators and the like to run. A similar situation is happening in the games sector with titles such as Bloodnet and Sim City 2000 requiring a hard drive and extra memory. To those people who whinge about this I've only got one thing to say: tough.

The computing industry is extraordinarily dynamic, more so than any other consumer electronics market. If you buy a fridge, washing machine or TV you quite rightly expect it to last the best part of a decade. Buy a computer and if it isn't out of date the day it's purchased then give it a year or so and it certainly will be. And yet a significant number of basic A500 owners seem to think their machines are still at the cutting edge of technology despite the fact that the hardware inside is over a decade old.

Unfortunately, reality means

that in order to run the latest applications or play the latest games continual upgrading is required, something which is unusual in the retail market. Most consumers will settle for a midi hifi instead of a separates setup, or an L model car instead of a GTi because they can't see enough of an increase in performance to justify the far greater expense, or simply cannot afford to. Successful retail products are generally those which are cheap and cheerful with mass market appeal. The A500 springs to mind as a good example.

Buy, buy, buy

PC buyers, however, seem to be the exception to this rule. Despite a high price point, even on entry level models, machines are falling off the shelf quicker than you can say 'information delicatessen'. Not only this but PC owners are quick to upgrade as soon as more powerful products are released. I have a friend who spent £2,000 on a 50MHz 486DX2 with 8Mb of RAM three years ago and he's already abandoned it in favour of a P90 with 32Mb and a 1Gb hard drive. It's a philosophy that Amiga owners

would do well to take up, so software companies would find it easier and more worthwhile to port PC products across. A 350Mb+ hard drive and 4Mb AGA machine should be a minimum standard, then software houses wouldn't have to worry about what they are going to have to cut out to make the products A500 compatible.

I'm not suggesting that the Amiga will pose a threat to the PC but it has already carved itself a comfortable niche and can continue to do so if owners improve their machines.

The popularity of the PC also comes down to the freedom it offers. You want to compose music with the aid of a 32-bit soundcard? You got it. You want the number crunching power of a 100MHz processor? You got it. And hurrah, with the forthcoming Windows '95 at last the PC has the power to multitask properly and manage files without the horrors of MS-DOS. Meanwhile Plug and Play will allow the simple connection of peripherals without having to endure a stream of DMA or IRQ conflicts.

Stop the rot

Hang on a second though, let's not be too hard on the Amiga. After all it can already multitask properly, adding new peripherals is no problem and it has powerful and versatile products of its own like *Imagine*, *AdPro* and the Blizzard series of expansion cards.

Given a fair comparison the Amiga is more than capable of rivalling the PC or Mac but more often than not it isn't given the chance to shine. Can you imagine what sort of PC you'd get for £300? Exactly. Equally, imagine the sheer class of Amiga you'd get for £2,000.

It might be expensive to upgrade your Amiga, but you've already invested a considerable amount of money and time into it, so it seems stupid to see it become redundant just because many of the machines out there haven't been upgraded.

It's time to show just what the Amiga is capable of before it's too late and ends up being a piece of history along with the C64 on the hardware scrapheap. Then there really will be something to moan about.

**Rik Skews** 

Rik Skews is computer industry freelance writer and a regular contributor to CU Amiga Magazine.

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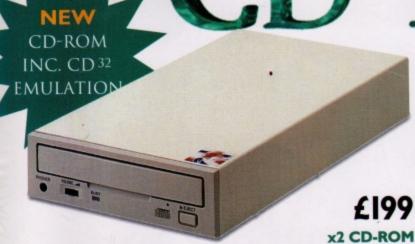
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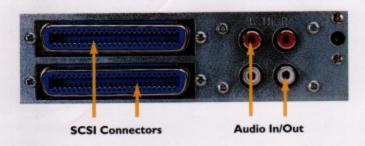


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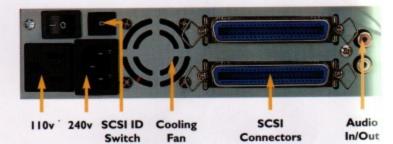




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